

# **CURRICULUM VITAE OF PROF. VENANSIUS BARYAMUREEBA**

## **BRIEF RESUME**

Venansius Baryamureeba is a Professor of Computer Science and holds a Ph.D. in Computer Science, M.Sc. in Computer Science, M.Sc. (Mathematics)-Coursework, Post Graduate Diploma in Analysing Linear Programming Models and B.Sc. (Mathematics) (Hons) among other qualifications.

He was a Presidential Candidate in the February 18, 2016 Presidential Election of the Republic of Uganda. He served as Founding (1<sup>st</sup>) Vice Chancellor of Uganda Technology And Management University (UTAMU) (2012 –2015); 14<sup>th</sup> Vice Chancellor of Makerere University (2009—2012); Dean of Makerere University Faculty of Computing and IT (2005—2010) and Director Makerere University Institute of Computer Science (2001—2005). He joined Makerere University in 1994 as a Teaching Assistant and rose through the ranks and was appointed a full Professor of Computer Science at Makerere University in 2006.

He is the Chancellor of Ibanda University. He has served as the Chairperson of: Board of Directors of Uganda Technology and Management University Ltd; Board of Trustees of Uganda Technology and Management University; Uganda Technology and Management University Senate; Makerere University Senate; Makerere University Management; Makerere University Business School Council; St. Augustine International University Council; Uganda Business and Technical Examinations Board; Uganda Vice Chancellors Forum; Common Market for Eastern and Southern Africa (COMESA) Innovation Council; Inter-University Council of East Africa; Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Board; Research and Education Network of Uganda; ICT Consults Ltd; and Busitema University Appointments Board among others.

He has served as a Member of: Makerere University Council; Uganda Technology and Management University Council; Makerere University Senate; Busitema University Senate; Mbarara University of Science and Technology Senate; Uganda National Examinations Board; National Council for Higher Education; African Institute for Capacity Development; and Inter University Council of East Africa among others.

At regional level, he has coordinated multimillion-dollar regional projects and research programmes aimed at building specialized computing and human resource capacity in Africa. At the national level, he has coordinated several

multimillion-dollar programmes aimed at building human resource capacity in universities and other tertiary institutions and the private and public sectors.

He has proven proficiency in attracting meaningful collaborations from public and private sectors at local and international levels. He has actively initiated and continues to initiate long-term programmes with support from various teaching and research universities, governments and organizations in Africa, Europe, Asia, and North America. These have greatly enhanced capacity in the areas of human resource, educational and joint research programmes, ICT and teaching infrastructure, gender balance and promotion (mainly in ICT/Science and Technology), relations among the universities, industry and government, and professionalization of services in government institutions.

He has a track record as a consultant in higher education and management, ICT, research, training, advisory services, policy and strategy, science technology and innovation and recognised expertise in e-governance. He is the Chairman and Managing Director of ICT Consults Ltd, one of the prestigious ICT consultancy firms in Africa.

He has presented at several international conferences and workshops and given various keynote address across the globe.

He is a distinguished academic, researcher, consultant, leader and manager as attested by the several recognitions and awards won at both national and international levels.

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## Curriculum Vitae of PROF. VENANSIUS BARYAMUREEBA

<b>Name:</b>	Venansius Baryamureeba
<b>Proposed role:</b>	<i>Computer Science, ICT for development, Policy and Strategy, governance and management expert</i>
<b>Date of Birth:</b>	18th May, 1969
<b>Nationality:</b>	Uganda
<b>Contact</b>	E-mail: prof.barya@mail.com; barya@utamu.ac.ug Tel: +256776543999; +256754828319.

### 1. Education

- Ph.D. in Computer Science, University of Bergen, Norway, 2000
- Post Graduate Diploma in Analysing Linear Programming Models, University of Trondheim, Norway, 1997
- M.Sc. in Computer Science, University of Bergen, Norway, 1996
- M.Sc. (Mathematics)-Coursework, Makerere University, Uganda 1995
- B.Sc. (Mathematics), Makerere University, Uganda, 1994

### 2. Countries and Territories of Experience

Burundi, China, Comoros, Democratic Republic of the Congo, Denmark, Djibouti, Egypt, Eritrea, Ethiopia, Finland, Germany, India, Israel, Kenya, Libya, Madagascar, Malawi, Mauritius, Netherlands, Norway, Rwanda, Seychelles, South Africa, South Sudan, Sudan, Swaziland, Sweden, Tanzania, Uganda, UK, USA, Zambia, Zimbabwe.

### 3. Titular Leadership Positions Held

- 2017- present      Chancellor, Ibanda University

### 4. Employment Record

- 2001-present      Chairman and Managing Director, ICT Consults Ltd, Uganda
- 2012-15      Vice Chancellor, Uganda Technology and Management University (UTAMU)
- 2009-12      Vice Chancellor, Makerere University
- 2005-10      Dean, Faculty of Computing and IT, Makerere University
- 2001-05      Director, Institute of Computer Science, Makerere University
- 2012-15      Professor of Computer Science, School of Computing and Engineering, Uganda Technology and Management University

- 2006-12 Professor, Department of Computer Science, Faculty of Computing and IT later renamed School of Computing and IT, Makerere University
- 2006 Associate Professor, Department of Computer Science, Faculty of Computing and IT, Makerere University
- 2005-06 Senior Lecturer, Department of Computer Science, Faculty of Computing and IT, Makerere University
- 2001-04 Senior Lecturer, Institute of Computer Science, Makerere University
- 2001 Lecturer on secondment, Institute of Computer Science, Makerere University
- 1998-2001 Lecturer, Department of Mathematics, Makerere University
- 1995-2000 Research Fellow, Department of Informatics, University of Bergen
- 1997-2000 Teaching Assistant, Department of Informatics, University of Bergen
- 1995-96 Assistant Lecturer, Institute of Teacher Education Kyambogo (ITEK)
- 1994-98 Teaching Assistant, Institute of Statistics and Applied Economics, Makerere University

## **5. Languages**

English (fluent), Runyankole (fluent), Luganda (not very fluent), Swahili (not very fluent). English is the official language.

## **6. Professional Memberships and Recognitions/ Awards**

### **6.1. Membership in the following professional organizations**

- Association of Computing Machinery (ACM), ACM Membership No.: 7250468
- Africa ACM SIGCSE Founding Member.
- Kampala ACM Chapter
- Uganda Computer Society
- Uganda National Academy of Computing and Internet Technologies-UNACIT (currently serving as President)
- Honorary member of the International Association of IT Governance Standards

### **6.2. Recipient of the following individual professional awards and recognitions**

- The Research and Education Network of Uganda (RENU) Appreciation Award in recognition of his distinguished leadership and service on the board as as chairperson of RENU (2018).
- The Uganda Vice Chancellors' Forum Appreciation Award in recognition of his distinguished contribution as chairperson of the forum towards the progressive success of Higher Education in Uganda (2016).
- Africa Education Leadership award by Jacob Mills, the Global Chairman of African leadership awards (2015). This Award of the highest stature was presented to Individuals and Institutions who surpassed several levels of its excellence and set an example of being a role model and Exemplary Leadership.
- Office of the Prime Minister of the Republic of Uganda Evaluation Award in honour of his contribution towards building evaluation capacities in Uganda (2015).
- African Society for ICT (ASICT) lifetime achievement award in ICT Research and Education in recognition of his immense contribution to the African continent in the ICT sector in the areas of research and education (2014).
- Golden Jubilee Medal of the Republic of Uganda (the highest honour bestowed on a non-head of state by the President Republic of Uganda) in recognition of his contribution to Education and ICT in the region (2013).
- Golden Star Academic & Educational Excellence award for Outstanding Contribution to Education by World Marketing Summit, Malaysia (2013).
- Europe Business Assembly Socrates Prize Award in the Education Category (2012).
- Award of Recognition in appreciation of his dedicated service and exemplary contribution to the National Council for Higher Education (NCHE) (2012).
- Admitted as permanent member of the Club of the Rectors of Europe (C.R.E.) whose mission is to consolidate efforts of the world scientific community in the development of provisions of the Bologna Process (2012).
- Amity Global Academic Excellence Award, awarded during the Amity International Business School International Business Summit (INBUSH) (2012).
- Award for Outstanding Contribution to Education at the Africa-India Partnership Summit Le Matinal Educational Excellence Awards (2011).
- 2009 TWAS-ROSSA Prize for Building Scientific Institutions for the African Region (2009). The Academy of Sciences in the Developing World (TWAS) is an autonomous international organization, based in Trieste, Italy, that promotes scientific excellence for sustainable development in the South.
- Most Influential ICT Personality in Uganda award from ICT Creative Ltd (2009).
- International Educator of the Year 2009 Award from International Biographical Centre of Cambridge, England (2009).
- Included in the 'TOP 100 Professionals-2009' by the International Biographical Centre in recognition of his significant contribution in the

area of ICT to engender influence on the local, national and international scene (2009). As a bearer of Top 100 Professionals 2009, he was recorded in perpetuity in the halls of the International Biographical Centre of Cambridge, England.

- Included in the ‘2000 Outstanding Intellectuals of the 21<sup>st</sup> Century’ by the International Biographical Centre of Cambridge, England (2009).
- Recognition Award for his distinguished service to the Makerere University Academic Staff Association (MUASA) as its representative on the Makerere University Council (2009).
- Included in the 2009 Edition of “Who's Who in the World (2008). Distributed globally, Marquis' Who's Who in the World is relied upon by business leaders, journalists, academics, and other professionals for its accuracy and currency of information.
- Runner-up at the Presidential Science Awards in the Science and Technology Excellence Award category, Republic of Uganda, in recognition of his innovative approach to institutional and human capacity development in computer science (2008).
- 2007 Top ICT Educator/ Academic Award in Africa (2007).
- Honoured by IBM (2007); A statement from IBM dated 4<sup>th</sup> December 2007 in New York stated that, “*IBM made a gift in honour of Professor Baryamureeba to the United Nations (UN) Foundation in support of Nothing but Nets, a grassroots campaign to save lives by preventing malaria*”.
- Professional of the Year 2005 – British Council Award (2005). This award was mainly for achievers, mentors and inspirational managers who have contributed immensely to the management of their organizations as well as International communities.
- Recognized by the Uganda National Council for Science and Technology in the 2005 Presidential Science Award Cycle for his efforts in empowering communities (educational and non-educational communities) with ICT skills so as to improve the quality of life through creation of human resource and socioeconomic development and for spearheading ICT training, research and consultancy services in sub-Saharan Africa (2005).

### **6.3. Institutional Awards**

During his tenure as Vice Chancellor, Makerere University won numerous awards in recognition of the successes achieved as follows:

- Makerere University was awarded with the International “European Quality Award”, giving the right to place and use the award attributes on the official forms and in any advertising purposes. This nomination witnesses the existing system of education that does not yield the best examples of organizing the educational process in high schools of Europe as well as the recognition of professionalism of the teaching staff, the quality of researches, introduction and realization of the international

programs. The award ceremony was held on 12<sup>th</sup> of July 2012 under the auspices of City Councils' Summit of Leaders and Euroscience Open Forum ESOF - 2012 (Dublin, Ireland, 11<sup>th</sup>-13<sup>th</sup> July 2012).

- On March 11<sup>th</sup>, 2012, Makerere University received the Century International Quality Award in the GOLD category from Business Initiative Directions (BID) [[www.worldquality.org](http://www.worldquality.org)] for Quality, Innovation and Excellence, in Geneva, Switzerland.
- Makerere University won the 2010 CIO100 Annual Awards Competition in acknowledgement of its achievement in ranking among the top 100 organisations in East Africa.

During his tenure as Dean, Makerere University Faculty of Computing and IT [CIT] (formerly Makerere University Institute of Computer Science (MUICS) and its affiliated company ICT Consults Ltd demonstrated an excellent sustainable model for conducting teaching, research and consultancy services.

- CIT won the International Quality Crown Award 2009 in Diamond Category from Business Initiative Directions (BID) [[www.bid-crown.com](http://www.bid-crown.com)] for corporate achievement in recognition of leadership, quality, innovation, excellence, technology, customer service and prestige.
- CIT was awarded the "2008 HP Technology for Teaching Higher Education Grant" in appreciation for its commitment for student success and for seeking innovative ways to transform teaching and learning through the effective use of technology.
- ICT Consults Ltd received 10<sup>th</sup> Platinum Technology Award for Quality and Best Trade Name, July 2008. This was in recognition of firms from all over the world, which have distinguished themselves in the field of quality, technology and excellence.
- CIT Cisco Academy received the Regional Academy Excellence Award for East Africa, 2008 in recognition of High student enrolment; excellent support to local academies; focus on student impact initiatives; high female enrolment; and expanded academy curriculum.
- CIT Cisco Academy received best Regional Academy of the year 2007 award for Europe, Africa, Middle East and Asia; Istanbul, Turkey 2007. Among the criteria considered in the selection process for the Award were outstanding performance, highest growth and enrolment plus outstanding student support initiatives.
- CIT Cisco Networking Academy received the Regional Academy Excellence Award, Nairobi 2007 in recognition of its consistent maintenance of high student enrolment, consistent high percentage of female students (more than 30%), high number of CCNA graduates (over 2,700), expanded Academy Program Curriculum and Excellent Communication.
- CIT also received the International Quality Crown Award 2007 in recognition of its commitment to Quality, Leadership, Technology and



Innovation.

- The International Star Award for Quality in the Diamond Category. On 3<sup>rd</sup> April 2006 the Faculty of Computing and Information Technology was awarded “The International Star Award for Quality in the Diamond category” (<http://www.bid-star.com/>). The award was in recognition of Excellence in Leadership and Business Management; Quality and Excellence; and Technological Innovations and Expansion.
- International Arch of Europe Award for Quality and Technology in the Diamond Category. Makerere University Institute of Computer Science (MUICS) and ICT Consults Ltd received the International Arch of Europe Award for Quality and Technology in the Diamond category on the 28<sup>th</sup> of February 2005.
- The ICT Development Award; At the Uganda Communications Commission Symposium and Awards Ceremony which was held on 15<sup>th</sup> July 2004 to mark five years of operation, reviewing successes and failures and mapping the way forward, Makerere University received an award in the ICT Development category based on two separate citations:
  - a) ICT Capacity building through the promotion and growth of the Institute of Computer Science that is creating the critical human resource capacity to address the challenges of the digital divide;
  - b) Exemplary and pioneering performance in organization wide integration of ICT services and systems in organizational functions and processes, and implementing the largest private network in Uganda.
- The ICT Quality Summit International Award. Makerere University Institute of Computer Science (MUICS) and ICT Consults Ltd (which is a private ICT Company comprising of highly qualified consultants from MUICS) received The Quality Summit International Award for Excellence and Business Prestige ([www.bid-qualitysummit.com](http://www.bid-qualitysummit.com)) in the Platinum Category by the Business Initiative Directions (BID) and JBAN.
- The 2003-Century International Quality Era Award. At the May 2003 Century International Quality Era Award Ceremony that was held in Geneva, MUICS and ICT Consults Ltd received a joint award in Gold Category from Business Initiative Directions (BID) in regard to visionary leadership, commitment to quality, innovations, excellence, technology transfer, customer service and prestige. This made MUICS / ICT Consults Ltd. the first organization / company in East Africa to receive such an award.
- Cisco Networking Academy International Awards. MUICS Cisco Networking Academy received two International Awards at the Cisco Africa Forum that was held in Dakar, Senegal 3-5 December 2003. The two awards were in the category of The Highest Academy Student Enrolment and an Outstanding Job Placement Program.

## 7. Grants

As Director, Dean and Vice Chancellor at Makerere University and at other institutions he has been part of has supported staff and institutions to mobilise financial resources. Below are some of the grants that he has been directly responsible for:

**Assignment:** Organizational change and institutional reform

**Location, amount:** Uganda, CAD 450,000

**Dates, Client, Position:** 2012, Canada-International Development Research Centre (IDRC), Makerere University Overall Project Coordinator

**Role:** Managed high-level project to strengthening the capacity of Makerere University to implement reforms and manage organizational change to strengthen leadership capacity, create an enabling environment to ensure effective devolution of institutional power and responsibilities, strengthen financial management, strengthen resource mobilization for financial sustainability, document the learning experience and monitor project progress.

**Assignment:** Science and technology research infrastructure investment

**Location, amount:** Uganda, US\$30.04 (UA19.4) Million

**Dates, Client, Position:** 2012, African Development Bank/Government of Uganda, Makerere University Overall Project Coordinator

**Role:** Part of the three-person team that wrote the initial project concept for a 5-year government initiative coordinated by the Ministry of Education and Sports and spearheaded by the Vice Chancellor at University level to improve the infrastructure and research capacity for science and technology, research, innovation and linkages with labor markets and staff development and capacity improvement.

**Assignment:** strengthen ICT training and research capacity in the public universities in Uganda to develop, implement and manage relevant educational and research programmes for poverty alleviation, rural and economic development.

**Location, amount:** Uganda, 5.7 million euros

**Dates, Client, Position:** 2007-11, Nuffic, Project Leader in Uganda and Overall Project Coordinator

**Role:** Led project supported by Dutch organization for internationalization in education (Nuffic) to strengthen ICT training and research capacity in the public universities in Uganda to develop, implement and manage relevant educational and research programs for poverty alleviation, rural and economic development.

**Assignment:** ICT curriculum development

**Location:** Egypt, Ethiopia, Kenya, Mauritius, Morocco, Mozambique, Senegal, South Africa, and Uganda

**Dates, Client, Position:** 2009, Partnership for Higher Education in Africa, Consultant

**Role:** As part of initiative to use the application of ICTs to transform the business of government and to enable the broad inclusion of citizens in public

management, public service delivery and democratic participation at the local level and exercise economic, political, and administrative authority to better manage the affairs of a “locale”, developed “Emerging Educational Approaches: New Programs and Curricula” to meet the needs of employers in Africa and around the world.

**Assignment:** ICT incubation center establishment

**Location:** Uganda

**Dates, Client, Position:** 2008-10, Government of Uganda - Office of the President, Project Coordinator

**Role:** In close consultation with the Office of the President (Economic Monitoring), Ministry of ICT and Ministry of Education and Sports in Uganda, established a national ICT incubation center with the mandate to undertake software and business incubation, rolled out call centers, data centers and e-learning centers.

**Assignment:** National Software incubation center establishment

**Location, amount:** Uganda, USD 0.3 million

**Dates, Client, Position:** 2008-10, Rockefeller Foundation, Makerere University Project Coordinator and Manager

**Role:** Established software incubation facility that provided computing graduates from all the universities in Uganda with hands on skills in software development, mentoring by professionals from Ugandan industry and international organizations such as IBM, Cisco and FedEx. Every 6 months the faculty graduated at least 100 Certified Software Engineers/Developers.

**Assignment:** Tele-Education e-network development

**Location, amount:** Regional (Eastern Africa and India), USD 50 million

**Dates, Client, Position:** 2006-2010, Government of India/ African Union, Pan African e-Network on Tele-Education Project Manager for Eastern Africa Region

**Role:** Represented Eastern Africa in an initiative of the Government of India and African Union to connect 53 Pan-African countries to provide electronic and knowledge connectivity as one network, including heads of State, Tele-Medicine and the Tele-Education sub networks, through satellite, fiber optic and wireless links.

**Assignment:** ICT network regional academy

**Location:** Uganda

**Dates, Client, Position:** 2003-10, Cisco Certified Network Professional (CCNP) Regional Academy, Overall Coordinator/Curriculum Lead

**Role:** Led Uganda as the first Least Developed Country with a Cisco Certified Network Professional Curriculum, part of the Cisco Networking Academy Program as a strategic partnership with Cisco Systems

to help train students in the world's least developed countries for jobs in the Internet economy, creating opportunities for skills development, accelerate progress, attain sustainable development, and fully integrate into the world economy.

**Assignment:** Strengthening ICT cooperation between Europe and Africa

**Location, amount:** Regional (Africa and Europe), 608,099 euros

**Dates, Client, Position:** 2010-11, European Commission, EuroAfrica-ICT Project Regional Coordinator for Eastern Africa.

**Role:** As regional coordinator, supported policy dialogues and strengthening cooperation on ICT

research between Europe and (sub-Saharan) Africa.

**Assignment:** ICT skills training

**Location:** Uganda

**Dates, Client, Position:** 2001-10, Makerere University, Chairperson

**Role:** Chairperson of the Makerere University End User Training Project (EUTP), which conducted all computer-related training in the university, planning and conducting successful training for over 60% of staff and all students in ICT skills so that they could fully exploit the power of ICT in research, teaching, learning and administration.

**Assignment:** Strengthening ICT cooperation between Europe, Caribbean and Africa

**Location, amount:** Regional (Africa, Europe and Caribbean), 798,961

**Dates, Client, Position:** 2008-09, European Commission, EuroAfrica-ICT Project Regional Coordinator for Eastern Africa

**Role:** As regional coordinator, supported policy dialogues and strengthening cooperation on ICT

research between Europe, the Caribbean and (sub-Saharan) Africa.

**Assignment:** Strengthening ICT capacity of technical colleges in Uganda

**Location, amount:** Uganda, 2million euros

**Dates, Client, Position:** 2006-09, Nuffic, Lead Ugandan Consultant

**Role:** Led Ugandan portion of project with the Dutch organization for internationalization in education (Nuffic) to strengthen the institutional capacity of the 4 technical colleges in Uganda to enhance the quality of technically skilled manpower, notably through increased use of ICTs, thereby contributing to poverty eradication and development of Uganda, development of new policies (aligned with national policies) and training programs, strengthening of ICT capacity and staff capacity building.

**Assignment:** Building sustainable ICT training capacity in the public universities in Uganda

**Location, amount:** Uganda, 3.4 million euros

**Dates, Client, Position:** 2004-08, Nuffic, Project Leader in Uganda and Overall Project Coordinator

**Role:** Spearheaded first ever-joint ICT project bringing together the four public universities in Uganda (Makerere, Mbarara, Gulu and Kyambogo) and the Dutch organization for internationalization in education (Nuffic), which aimed at addressing ICT human resource capacity, including training, procurement of computing equipment and strengthened teaching and research abilities.

**Assignment:** ICT research development

**Location, amount:** Regional (East Africa), 0.5 million

**Dates, Client, Position:** 2003-08, United Nations Economic Commission for Africa (UNECA), VarsityNet Project for East Africa Region Project Manager

**Role:** Managed project funded by United Nations Economic Commission for Africa (UNECA) and coordinated by the Inter-University Council of East Africa (IUCEA) to enable African universities and research institutions to play a greater role in the information society and become one of its key pillars by offering innovative solutions and applications, including encouraging the software development role of universities and reinforcing their potential role as incubators and generators of ideas. The project developed a unique methodology to undertake a needs assessment at the East African Community (EAC) and conducted a survey targeted at EAC and its three autonomous institutions: Inter-University Council of East Africa (IUCEA), the East African Development Bank and the Lake Victoria Fisheries Organization (LVFO), conducted research and development activities, and then applied the knowledge and expertise accumulated during the first phase to a wider context, including creation of a common framework, based on Open Source Software (OSS), for integrating IUCEA member universities' education services.

**Assignment:** Computing center infrastructure investments

**Location, amount:** Uganda, USD 30 million

**Dates, Client, Position:** 2001-2008, Royal Kingdom of Norway-NORAD/ Makerere University, Project Manager

**Role:** Oversaw procurement and construction of initial 2500sq meters ultra-modern computing center funded by NROAD and then the largest computing center in Africa with an approximate area of 12,500sq meters funded from internally generated funds of Makerere University Faculty of Computing and IT.

**Assignment:** African e-government assessment and policy recommendations

**Location, amount:** 9 African countries, CAD 1 million

**Dates, Client, Position:** 2006-07, Canada-International Development Research Centre (IDRC), LOG-IN Africa Team Leader for Uganda

**Role:** Assessed use of e-local government initiatives in 9 African countries, including internal organizational processes of local governments, provision of information and service delivery, promotion of the principles of good governance, public participation and consultation. Established a virtual network of research peers to ensure effective implementation and dissemination of research results.

**Assignment:** Information society research and development

**Location:** Africa

**Dates, Client, Position:** 2003-07, African Learning Network, Coordinator

**Role:** Coordinated program geared towards enabling African universities and research institutions to play a greater role in the information society and become one of its key pillars by offering innovative solutions and applications; represented the 'Knowledge Sharing and Building Intellectual Capital' goal of the Africa Learning Network, which aimed at promoting the creation and presentation of content and knowledge by learners and teachers and to empower them as global communicators.

**Assignment:** Assessment of quality of service in Uganda

**Location, amount:** Uganda, USD 70,000

**Dates, Client, Position:** 2003-04, Cisco Systems University Research Program, Principal Researcher/Primary Investigator and Project Manager

**Role:** Assessed “Quality of Service (QoS) in Least Developed Countries (LDCs): A Case Study of Uganda”. The research focused on integrated and differentiated services with particular emphasis on how the results could help the Internet service providers, end users and regulatory bodies in meeting their goals and objectives. MTN Uganda and UTL Uganda were used as case studies. The research suggested heuristic algorithms aimed at improved quality of service and the results showed how countries such as Uganda could optimally utilize the small bandwidth without charging the end users more.

**Assignment:** Development of university level e-learning

**Location:** Uganda

**Dates, Client, Position:** 2001-04, Makerere University, Coordinator

**Role:** Coordinated Makerere University E-learning Project to develop capacity to integrate the use of ICT in the University’s core function of teaching and learning, including developing a solid knowledge base in the area of educational uses of computers and through the development of knowledge and expertise in this field within the university academic staff.

## 8. Consultancy Reference Assignments:

Below he provides some selected consultancies that he has undertaken:

**Assignment:** Recruitment of Executive Director of Uganda Bureau of Statistics

**Location:** Uganda

**Dates, Client, Position:** 2018, Public Service Commission, Consultant for leadership, development and implementation of the strategic plan and financial, human resource and administrative management.

**Role:** Successfully conducted competency-based assessment. Recruitment exercise still ongoing.

**Assignment:** Recruitment of Executive Director of PPDA (Public Procurement and Disposal of Public Assets Authority)

**Location:** Uganda

**Dates, Client, Position:** 2018, Public Service Commission, Consultant for Financial Management and Performance Management.

**Role:** Successfully conducted competency-based assessment. Recruitment exercise pending issuance of appointment instrument.

**Assignment:** Development of the East African Regional Policy for Science, Technology and Innovation

**Location:** East African Community (EAC)

**Dates, Client, Position:** 2018, East African Science and Technology Commission, an organ of EAC, Team Leader/ Lead Consultant.

**Role:** Developed a Regional Science, Technology and Innovation (STI) Policy including key objectives, pillars and targets, with a monitoring and evaluation framework, a regional innovation system and an implementation system; Carried out national STI stakeholders’ consultations on how STI can be managed, guided and regulated; Collected and prepared a regional STI baseline data and information for evidence- based policy formulation; Developed effective

support mechanisms for fostering S&T-led innovations; Developed proposal on the best approach on sustainable STI human resource development, technological learning and innovation; Developed the communication and outreach plan for the policy.

**Assignment:** Recruitment of Executive Director of Uganda Wildlife Authority (UWA)

**Location:** Uganda

**Dates, Client, Position:** 2018, Public Service Commission, Consultant for resource mobilisation, management and accountability (financial management).

**Role:** Successfully conducted competency-based assessment and the recruited exercise was completed and the Executive Director appointed in 2018.

**Assignment:** Serve on the National Science, Technology and Innovation Programme (NSTIP) Evaluation Committee

**Location:** Uganda

**Dates, Client, Position:** 2017/2018, National Council for Science and Technology (UNCST), Chairperson

**Role:** To advise the Uganda National Council for Science and Technology (UNCST) and the Ministry of STI on scientific and technological matters regarding the implementation of the NSTIP, evaluate concepts and full proposals (in research and development areas of Biotechnology/Agriculture; Health/Nutrition; Information, Communication and Telecommunication (ICT); Value Addition/Product Development; and Material Sciences/Renewable Energy) of researchers and innovators seeking funding from NSTIP, and make recommendations.

**Assignment:** Assessment of knowledge and technology transfer institutions and identification of potential centers of excellence in the East African Community (EAC)

**Location:** East African Community (EAC)

**Dates, Client, Position:** May –August 2017, East African Science and Technology Commission, an organ of EAC, Team Leader/ Lead Consultant.

**Role:** Carried out an assessment of knowledge and technology transfer institutions and identified potential regional centers of excellence in knowledge and technology transfer in the East African Community (EAC). Assessed partner states' knowledge and technology transfer institutions in order to enhance the management and exploitation of the research results and identify potential regional centers of excellence, including development of baseline information on Science and Technology institutions with knowledge and technology transfer functions in the EAC partner states, assessment of the adequacy of current policies and strategies for efficient and effective knowledge and technology transfer, provision of specific proposals for action, including incentives for research, development of EAC regional guidelines for improving knowledge and technology transfer to facilitate exploitation of research results at national and regional levels, development of EAC regional regional guidelines on intellectual property management and commercialisation.

**Assignment:** Recruitment of Director for Information Technology

**Location:** Uganda

**Dates, Client, Position:** 2017, Uganda Bureau of Statistics, Lead ICT Consultant

**Role:** Successfully recruited new Director for Information Technology for the Uganda Bureau of Statistics.

**Assignment:** ICT professional certification program development

**Location:** Uganda

**Dates, Client, Position:** 2001-12, Ministry of Education and Sports, Leader

**Role:** Spearheaded establishment of internationally recognized certification programs like those under Cisco Systems Inc., Microsoft Inc., and Oracle Inc., allowing the holder to work anywhere in the world.

**Assignment:** Development of National Information Technology Authority, Uganda (NITA-U) Strategic Plan.

**Location:** Uganda

**Dates, Client, Position:** 2011-2012, National Information Technology Authority, Uganda (NITA-U), Overall Project Quality Control Consultant

**Role:** Ensured overall quality in the development of NITA-U Strategic Plan.

**Assignment:** Development of corporate plan and institutional structures for National Information Technology Authority-Uganda (NITA-U)

**Location:** Uganda

**Dates, Client, Position:** 2006-2007, Ministry of Finance, Planning and Economic Development, Lead (ICT) Consultant

**Role:** Lead ICT Consultant in World bank-sponsored development of corporate plan and institutional structures for National Information Technology Authority-Uganda (NITA-U).

**Assignment:** Recruitment of National Information Technology Authority, Uganda (NITA-U) leadership

**Location:** Uganda

**Dates, Client, Position:** 2010, National Information Technology Uganda, Lead ICT Consultant

**Role:** Successfully recruited National Information Technology Uganda (NITA-U) Executive Director and Directors.

**Assignment:** Development of Integrated Information and Document Management System

**Location:** Uganda

**Dates, Client, Position:** 2008, Government of Uganda, Project Manager

**Role:** Developed Integrated Information and Document Management System

**Assignment:** Document management

**Location:** Uganda

**Dates, Client, Position:** 2008, Department of Geological Survey and Mines (DGSM), Consultant

**Role:** Provided consultancy services for the establishment of a modern Documentation Centre at

the Department of Geological Survey and Mines, Entebbe.

**Assignment:** Development of automated Uganda Birth and Death Registry



**Location:** Uganda

**Dates, Client, Position:** 2007, Government of Uganda, Project Manager

**Role:** Developed an automated Uganda Birth and Death Registry for the Ministry of Justice and Constitutional Affairs

**Assignment:** ICT system library and access management

**Location:** Uganda

**Dates, Client, Position:** 2007, Bank of Uganda, Project Manager

**Role:** Provided consultancy services for development of the Integrated Library Management and Information Access System for Bank of Uganda

**Assignment:** African development policy

**Location:** Africa

**Dates, Client, Position:** 2002-07, United Nations Economic Commission for Africa (UNECA), Consultant

**Role:** ICT consultant to the African Development Forum (ADF) and World Summit on Information Society (WSIS)

**Assignment:** Participation in the Development of Kampala City Council Intranet.

**Location:** Uganda

**Dates, Client, Position:** 2005, Kampala City Council, Project Manager

**Role:** Managed the design, development and implementation of the Kampala City Council Intranet

**Assignment:** National Information and Communication Technology (ICT) Policy

**Location:** Uganda

**Dates, Client, Position:** 1999-2003, Ministry of Works, Housing and Communications, Member of the Task Force

**Role:** Developed the national information and communication technology policy.

## **9. Member and Chairperson of Boards, Councils and Agencies**

He has served as a member and or chairperson of various boards, councils and agencies. Below he provides some with a brief description of the roles/ duties:

- i. Chairperson, Board of Directors/ Trustees of Uganda Technology And Management University (UTAMU) Ltd, 2012- to date. The Board of Directors provides strategic oversight over the business owned by UTAMU Ltd (which include UTAMU) in accordance with the UTAMU Ltd articles and memorandum of association, companies act 2012 and other laws of Uganda. He is a simple majority shareholder in UTAMU Ltd. The Board of Directors is the supreme organ of the University and oversees the academic, administrative and financial affairs of the University. The University Council that directs the academic, administrative and financial affairs of the University is responsible to the Board of Trustees.
- ii. Chairperson Appointments Board and Member of University Council, Busitema University, 2016-2020. The Appointments Board is responsible to the University Council for the appointment, promotion, removal from service and discipline of all officers and staff of the academic and

- administrative service of the University, as may be determined by the University Council whereas the University Council is responsible for directing the academic, administrative and financial affairs of the University.
- iii. Chairperson, St. Augustine International University Council, 2016-2018. The University Council is responsible for directing the academic, administrative and financial affairs of the University.
  - iv. Chairperson, Uganda Vice Chancellors Forum, March 2014 to March 2016. On Monday 10th March 2014, Professor Venansius Baryamureeba was elected Chairman of the Uganda Vice Chancellors Forum for a term of two years. The Uganda Vice Chancellors forum is a body that brings together all vice chancellors in Uganda, from both public and private Universities with an aim of addressing issues that affect universities in the country.
  - v. Chairperson, Uganda Business and Technical Examinations Board (UBTEB), August 2013 – August 2019. The object of the Board is to streamline, regulate and coordinate examinations and awards in the business and technical profession in Uganda. The functions of the board shall be to: (i) conduct business and technical examinations for specialized training institutions in Uganda; (ii) accredit theory and practical examination centers used for the conduct of the examinations; (iii) make rules regulating the conduct of examinations; (iv) establish and oversee practical and theoretical questions' banks; (v) publish past examination papers; (vi) establish and maintain a database of examination results in safe custody; (vii) collaborate with other bodies relevant to its functions; (viii) provide feedback to training institutions on examinations; and (ix) award certificates and diplomas to successful candidates in such examinations.
  - vi. Founding Chairman, Common Market for Eastern and Southern Africa (COMESA) Innovation Council, 2013-2016. The 10-person Innovation Council was made up of eminent personalities drawn from government, academia, business and civil society. The first meeting of COMESA Ministers responsible for science, technology and innovation was held on 28 June 2012. During the meeting, the Ministers recognized the critical urgency of putting in place mechanisms for harnessing and mobilizing existing knowledge from around the world, and of doing this in a structured manner that benefits all COMESA Member States. The experts underscored that there was need for adequate absorptive capacity in the Member States that could be deployed to put the knowledge to immediate practical use. In this regard, the Ministers decided to establish a COMESA Innovation Council. The Innovation Council's primary responsibility was to provide advice to Member States relating to existing and new knowledge and innovations, and best ways of applying the knowledge and innovations in the Member States.

- vii. Chairperson of Council, Makerere University Business School, 2012-2018. Makerere University Business School (MUBS) is a Public Tertiary Institution. It is affiliated to Makerere University for the award of degrees. MUBS runs academic programmes from certificate to PhD level. The Council is the supreme governing organ of MUBS and as such is responsible for the overall administration of the objects and functions of the MUBS i.e. the Council is responsible for the direction of the administrative, financial and academic affairs of MUBS.
- viii. Chairperson, Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Board (November 2009 – October 2011). RUFORUM is a consortium of over 29 universities in Eastern, Central and Southern Africa established in 2004 and has a mandate to oversee graduate training and networks of specialization in the Common Market for Eastern and Southern Africa (COMESA) member countries.
- ix. Chairperson (November 2009 – June 2010) and member (November 2009 to September 2012) of the Inter University Council of East Africa (IUCEA). IUCEA aims to facilitate contacts between the universities of East Africa; to provide a forum for discussion on a wide range of academic and other matters relating to higher education; and to maintain high and comparable academic standards. From November 2009 to June 2010, he also chaired IUCEA Administrative Board, IUCEA Finance Committee and Other IUCEA Committees.
- x. Chairman of the Board (April 2010 –May 2014) and Director (April 2009 – May 2014) of the Research and Education Network for Uganda (RENU). RENU is a company limited by guarantee whose main objectives include: to promote and facilitate research and education networking among Ugandan Universities and Research Organization; to provide cheaper bandwidth to educational and research institutions; to create stronger negotiating positions for participating institutions in dealing with government and regulators on issues related to policy and regulation vis-à-vis research and educational organizations; and to explore ways of overcoming the high cost of information systems through pooling resource and sharing, where feasible, costs for common software, and promoting collaboration in areas that may include but are not limited to e-learning systems to help deliver common online courses.
- xi. Chairman of the African Centre for Media Excellence (2010 to date). ACME is a Kampala-based independent, non-governmental, non-partisan and non-profit professional organisation committed to helping African journalists to seek and achieve excellence as well as improving journalism and mass communication in Africa.
- xii. Chairperson, Makerere University Senate (November 2009 to August 2012). The Senate is the supreme academic organ of the University.
- xiii. Executive President, CONNECT Uganda Foundation (May 2003- to date). CONNECT Uganda, a non-profit making organization, was incorporated in Uganda in May 2003 with the overall objective of stimulating new firms and creating jobs in the knowledge-intensive sector, by linking

entrepreneurs and innovators with research and development, service providers, venture capitalists and partners. CONNECT Uganda enables the conversion of excellent academic research into finished products that are consumed locally and internationally. Academic institutions, low-income organisations and non-profit making organisations may utilize these products freely. This organization is mainly using students in the higher education institutions in Uganda to support the staff to meet the above objectives.

- xiv. Chairman Board of Directors (2008 to 2013), The THINK BIG AFRICA FOUNDATION, whose primary focus was to put up vocational/ Technical skills learning center in Uganda which would serve as a catalyst for growth in the areas of workforce development, self-empowerment and economic growth; and empower citizens to achieve an enhanced individual quality of life. This mainly focused on the young generation and accorded them the opportunity to realize their greatest potential.
- xv. Chairperson, The National Science, Technology and Innovation Programme (NSTIP) Evaluation Committee, 2017-2018. NSTIP is a competitive research and development funding initiative by the Government of Uganda through the Uganda National Council for Science and Technology (UNCST). The NSTIP supports scientific research and innovations across all domains of Science, Technology and Innovation (STI) inline with the priorities indicated in the STI Policy 2009, NDP II (2015/16-2019/20) and Vision 2040. The program supports research and development projects that have gone beyond proof of concept nearing industrial production and commercialization. The objectives of the programme include the following: (a) To strengthen Uganda's STI capabilities and performance in the medium term; (b) To support the uptake of research results to enhance national productivity and growth; (c) To strengthen Uganda's human resource and research productivity for social economic transformation; and (d) To support the growth of Micro Small Medium Enterprises (MSMEs) by supporting Research, Development and Innovation (RDI) initiatives using multidisciplinary and multi-sectoral research teams. The programme will support several priority projects in the following UNCST research and development priorities: Biotechnology/Agriculture; Health/Nutrition; Information, Communication and Telecommunication (ICT); Value Addition/Product Development; and Material Sciences/Renewable Energy.
- xvi. President, Uganda National Academy for Computing and Internet Technologies (UNACIT) (2004 to date). This is an association that brings together all the computing/ ICT departments/ institutes/ faculties in all the universities (public and private) in Uganda to network in order to optimally share resources, address common challenges and ensure quality in the computing profession.

- xvii. Chairperson, Makerere University Management Committee (November 2009 to August 2012). This is the committee that handles the day to day running of the University.
- xviii. Chairperson Institute of Computer Science Board (July 2001—2005) and Chairperson of the Faculty of Computing and IT Board (2005—July 2010). The Board handled all the academic matters at the institute/ faculty.
- xix. Member of the 7<sup>th</sup> Uganda National Examinations Board (UNEB) from August 2, 2010 to August 2013. UNEB is the national assessment body for primary and secondary education in Uganda.
- xx. Member, National Council for Higher Education (NCHE) and Council Committees (November 2009 to August 2012. He was a member of the Finance and Management Committee, the Quality Assurance and Accreditation Committee, the Research and Development Committee, and the Full Council. NCHE regulates higher education, and guides the establishment of institutions of higher learning as well as ensures that quality and relevant education is provided in Uganda.
- xxi. Member, Uganda Technology and Management University Council, 2012-2015. The Council directs the academic, administrative and financial affairs of the University.
- xxii. Member, African Institute for Capacity Development. Ugandan Universities Representative to Governing Board of the African Institute for Capacity Development (AICAD) from September 19<sup>th</sup>, 2011 – August 2013. AICAD aims at poverty reduction in the African region through human capacity development.
- xxiii. Member of the Plant Resources of East Africa (PROTA) Board of Trustees as a representative of Makerere University on a three-year contract (2011-2013). It was a partnership of 11 institutions (7 in Africa, 3 in Europe and 1 in South-East Asia) that undertook the complex task of information gathering, knowledge synthesis, dissemination and utilization on about 7,000 useful plants of tropical Africa.
- xxiv. Member of the Advisory Committee of the International Conference series on Theory and Practice of Electronic Governance (ICEGOV) Series, 2013- to date. ICEGOV brings together governments, academia, the United Nations system and other international organizations, civil society and the private sector to share the insights and experiences in theory and practice of Electronic Governance as a tool to strengthen governance capabilities to pursue public policy and sustainable development at the global, regional, national and local levels. More information about the conference is available at [www.icegov.org](http://www.icegov.org).
- xxv. Member, Presidential Investors Round Table on Information and Communication Technology (ICT), 2013. This body was comprised of eminent personalities and advised the President of Uganda on all matters to do with ICT.
- xxvi. Member of the Presidential Investors Roundtable- Business Process Outsourcing working group (2007 to 2008). The President of Uganda launched the 2<sup>nd</sup> Presidential Investors Roundtable; a top-level Business

Advisory Council on 21<sup>st</sup> June 2007 at Imperial Resort Beach, Entebbe, Uganda. This Council had five working groups; Tourism, Business Process Outsourcing (BPO), Mining/ Petroleum Exploration, Business Climate/ Finance and Agribusiness (Agro processing, Biotech and Forestry). The mandate of the Council was to advise the Government on steps that should be taken to improve the investment climate and increase Foreign Direct Investment (FDI) inflows to Uganda.

- xxvii. Member, The Presidential Investors Roundtable (2004 - 2006), a top-level Business Advisory Council, launched on 30<sup>th</sup> September 2004 by the President of the Republic of Uganda at Speke Resort Munyonyo, Uganda. This Council had four working groups: Agribusiness, ICT/Education, Infrastructure and Regulatory Environment. The mandate of the Council was to advise the Government on the steps that should be taken to improve the investment climate and increase Foreign Direct Investment (FDI) inflows to Uganda.
- xxviii. Member, Makerere University Council (December 2006 to August 2012). The Makerere University Council is the supreme policy organ of the University. It is responsible for directing the academic, administrative and financial affairs of the University.
- xxix. Member of the following Makerere University Council Committees, December 2010- August 2012:
- Appointments Board. This is responsible to the University Council for the appointment, promotion, removal from service and discipline of all officers and staff in the academic and administrative service of the University, as may be determined by the University Council.
  - Finance Planning and Administration.
  - Staff Development, Welfare & Retirement Benefits Committee.
  - Chairperson, Honorary Awards Committee. This is a joint Committee of Council and Senate that receives and consider nominations from the various Boards of Studies of Faculties/Schools/Institutes and Academic Boards for award(s) of Honorary Degrees and Fellowships; and forwards the approved nominations for balloting by the members of the Senate and Council.
- xxx. Chairperson/ Member, Council ICT Committee from 2002 to December 2010. From November 2009 to December 2010, he was the Chairperson of the ICT Committee of Council. This committee advised the University Council on ICT policy and master plan, integration of ICT in teaching, learning, research and administration.
- xxxi. December 2006 to December 2010 he was a member of the following Makerere University Council Committees: Finance, Planning and Development Committee; ICT Committee; Establishment and Administration Committee; and Statutory Committee.

***Professor Baryamureeba was also an Ex-Official for the following University Council committees, December 2010 – August 2012:***

- Quality Assurance, Gender and ICT Committee.
  - Estates and Works Committee.
  - Student Affairs & Disciplinary Committee.
- xxxii. Member, Makerere University Senate, July 2001 to August 2012 and in the period July 2001—June 2010, he served on the following Committees:
- Academic Programmes and Library Committee (2003—June 2010).
  - Senate Science Committee (July 2001- March 2003).
  - Graduate Studies Board (2003—June 2010).
- xxxiii. Member, Board of Trustees of Makerere University Female Scholarship Foundation (FSF) with effect from September 1, 2011 for 3 years. The Makerere University Female Scholarship Foundation (FSF) was launched on 20<sup>th</sup> November 2010 to sustain the Female Scholarship Initiative (FSI), which had supported 691 girls from disadvantaged social-economic backgrounds to access university education.
- xxxiv. Member, Board of Commercial Units, Makerere University, 2006 to December 2010. This Board oversaw all the commercial units at Makerere University.
- xxxv. Member, Busitema University Senate since 27<sup>th</sup> November 2007 to 2016. He was a Government Appointee on the Senate. The Senate is the supreme organ of a University in charge of all academic matters of the University.
- xxxvi. Member, Mbarara University of Science and Technology Senate since 12<sup>th</sup> June 2009 to 2015. He was a Government Appointee on the Senate. The Senate is the supreme organ of a University in charge of all academic matters of the University.
- xxxvii. Chairperson, organising Committee for one-year celebrations marking 90 years of Makerere University's existence and commemoration of the 50 years of the Establishment of the University of East Africa. The launch is scheduled to take place on 4<sup>th</sup> august 2012.
- xxxviii. Team Leader, CEO Club on Vocational Training and Skills Deficit, February 2012 to 2016. The CEO Summit Think Tank Uganda formed CEO Clubs charged with identifying challenges in specific priority sectors of the economy as a first step to proposing creative and sustainable solutions. All club CEOs were selected basing on their valuable and filed-tested Talent, experience and capacity to deliver result.
- xxxix. Vice-Chairperson of NetTel@Africa Programme Academic Board (January 2007 to December 2011). NetTel@Africa ([www.nettelafrica.org](http://www.nettelafrica.org)) is a network for capacity building and knowledge exchange in ICT policy,

- regulation and applications. It is a comprehensive capacity-building strategy focused on improving the use of Information Communication Technologies (ICT) to achieve socio-economic development goals in Africa. NetTel@Africa is a global network of government officials, regulators, academics, researchers, service providers, consumers, and civil society.
- xl. Patron, Young Entrepreneurs' Forum (April 2011 to date). This is a non-profit organization aimed at uniting and empowering Ugandan, East African and African youth.
  - xli. Patron, Financial Literacy Foundation (FinLiT) (2010 to 2017). This brought foundation brings together players in the financial sector.
  - xlii. Member, The State of the Nation Platform, since 2010 to date. The State of the Nation Platform in Uganda is a specific policy forum aimed at promoting an upward and downward policy conversation on contemporary public policy and governance issues in Uganda. The State of the Nation Platform brings together individual leaders and professionals in the public sector, private sector, civil society, the media and other interest groups into a policy discourse.
  - xliii. Member, National Board of Advisors for the Pan African Movement – Uganda National Chapter, an offshoot of the Global Pan African Movement (GPAM), June 2009 to June 2014. Pan African Movement is an organization of self-expression, coordination and resistance of African peoples throughout the world in their quest for a total and complete liberation.
  - xliv. Member, Uganda Doing Business Reform Task Force (August 2009 to December 2010). The Doing Business Report published annually by the World Bank investigates the regulations that enhance business activity and those that constrain it based on key indicators across 181 countries. The indicators relating to 10 stages of a business's life were: starting a business, dealing with licenses, employing workers, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts and closing a business.
  - xlv. Trustee and Honorary member, Uganda Young Entrepreneurs Association (August 2005 to date). This is a support association for young entrepreneurs. It offers peer mentorship, networking, speaker events and social activities. Through this association, Professor Baryamureeba has been able to touch the lives of many youths in Uganda and imparted on them skills to be successful entrepreneurs. These events have been extended to universities in form of monthly seminars.
  - xlvi. Member, Nuffic Project Steering Committee (January 2007 to December 2010). The Faculty of Development Studies at Mbarara University of Science Technology won a grant from Nuffic for a project entitled 'Strengthening the Capacity of the Faculty of Development Studies'. This project aimed at strengthening the capacity of the embryonic Faculty of



Development Studies at Mbarara University of Science & Technology (MUST) to effectively and efficiently teach tailor-made and relevant courses in Development Studies and other related areas such as Business Administration do active research and engage in community development work to promote grassroots development. This was done through improvement and development of 1) Human Resources (Ph.D. & MSc Training and Specialised Training), 2). Relevant Education Programmes, 3). A Community Based Outreach Program, 4). Research Capacity & 5). The Physical & Teaching Infrastructure. The target group were Staff and Students of the Faculty of Development Studies at MUST. The project established a centre of excellence in Development Studies training and research that transformed into Faculty of Interdisciplinary Studies at Mbarara University of Science & Technology that will continuously address the human resource gaps for suitable Development Practitioners to work in the largely rural areas of Uganda to address poverty issues and promote socio-economic development. Professor Baryamureeba together with Prof. Pamela Mbabazi the Dean of the Faculty of Developed Studies at Mbarara University of Science and Technology developed this proposal. The Netherlands Government through Nuffic funded the project to the tune of 1.75 million euros for four years, January 2007—January 2011.

- xlvi. Member, Organising Committee for the Grand Alumni of Makerere University Re-Union. Makerere University Convocation organised a Grand Re-Union on 28<sup>th</sup> November 2009, and H.E. Benjamin Mkapa, former President of the Republic of Tanzania was the Chief Guest.
- xlviii. Member, Makerere University Organizing Committee for Stakeholders' Consultative Conference. The conference took place from 22<sup>nd</sup> - 23<sup>rd</sup> January 2009. The organizing committee was responsible for the general organization of the consultative conference; drafting terms of reference for the thematic areas sub-committee; receiving reports and presentations and synchronizing the presentations for the consultative conference; identifying the stakeholders to be invited for the consultative meeting; mobilizing funds to support the conference among others.
- xlix. Member of the Infrastructure Committee of the Commission for Africa Forum (Aug 2005 - 2007). This committee was charged with developing policies and plans for the setting up of common infrastructure within the New Economic Partnership for Africa's Development (NEPAD) member states. His main contribution was in the area of regional ICT policies and plans necessary for the integration of ICT in governance, commerce and education.
  - 1. Member, Task Force on E-Transactions and Computer Misuse, Uganda Law Reform Commission (October 2002—November 2003). This task force was charged with the drafting of the bills on e-transactions, and computer misuse/crime.

- li. Member, NORAD Steering Committee, Makerere University (July 2001-2007). This committee oversaw the NORAD Institutional Development Program, determined possible areas for NORAD funding and vetted proposals to be funded.
- lii. Convener, Internet bandwidth Task Force (May 2007-June 2007), convened a taskforce to review the bandwidth at Makerere University and submitted a report with recommendations to the University Management.
- liii. Member, Technical Adhoc Council Committee on the Makerere University Vice-Chancellor and Deputy Vice-Chancellors' Search (April 2008 - July 2008). The terms of reference for the committee were to seek the views of stakeholders; to compare Makerere University's search process with best practices in other universities; to consider the previous process used for the search of the Vice Chancellor and Deputy Vice Chancellors and to consider improvement of the search process. The committee submitted its report to Council in July 2008 and Makerere University Council adopted the report.
- liv. Member, Adhoc Committee on Salary Enhancement (2009). This committee was to study and recommend ways of how salaries of staff could be enhanced by proposing alternative sources of income.

## 10. Publications, Supervision, External Examination, Curriculum Development, Search and other Related Activities

### 10.1. Journal Publications

- i. **Venansius Baryamureeba**, Wilfred Karukuza Nahamya (2014). The Role of TVET in Building Regional Economies, International Journal of Vocational Education and Training Vol. 22 No. 1, pp 7-15. ISSN: 1075-2455.
- ii. Washington Okori, Joseph Obua, and **Venansius Baryamureeba** (2010). Logit Analysis of Socioeconomic Factors Influencing Famine in Uganda. Journal of Disaster Research, Vol.5, No.2 pp. 208-215, 2010
- iii. Okori W., Obua J., and **V. Baryamureeba** (2009). Famine Disaster Causes and Management Based on Local Community's Perception in Northern Uganda, Research Journal of Social Sciences, 4, 21 -32.
- iv. R. Wesonga, J.P. Jehopio and **V. Baryamureeba** (2008). Stochastic Optimisation Model for Agricultural Production in Africa using Remote Sensing Technology. Makerere University Research Journal (MURJ), Vol. 003(1), pp. 81 – 87.
- v. Kitoogo F., **Baryamureeba V.** and G. De Pauw (2008). Towards Domain Independent Named Entity Recognition. International Journal of Computing and ICT Research, Vol.2, No.2, pp. 84-95.

- vi. Wakabi-Waiswa P., and **V. Baryamureeba** (2008). Extraction of Interesting Association Rules Using Genetic Algorithms, *International Journal of Computing and ICT Research*, Vol.2, No.1, pp. 26-33.
- vii. **Baryamureeba V.** and T. Steihaug, (2007). On the Properties of Preconditioners for Robust Linear Regression, *International Journal of Computing and ICT Research*, Vol.1, No.2, pp. 50-66,
- viii. Kitoogo F. E. and **V. Baryamureeba** (2007). Meta-Knowledge as an Engine in Classifier Combination, *International Journal of Computing and ICT Research*, Vol.1, No.2, pp.74-86.
- ix. **Baryamureeba V.**, (2007). ICT as an Engine for Uganda's Economic Growth: The Role of and Opportunities for Makerere University, *International Journal of Computing and ICT Research*, Vol.1, No.1, pp. 47-57.
- x. Wanyama T. and **V. Baryamureeba** (2007). The Role of Academia in Fostering Private Sector Competitiveness in ICT Development, *International Journal of Computing and ICT Research*, Vol.1, No.1, pp. 58-67.
- xi. Kitoogo F. E. and **V. Baryamureeba** (2007). A Methodology for Feature Selection in Named Entity Recognition, *International Journal of Computing and ICT Research*, Vol.1, No.1, pp. 18-26.
- xii. **Baryamureeba V.** and F. Tushabe, (2006). The Enhanced Digital Investigation Process Model, *Asian Journal of Information Technology* 5(7): pp. 790-794.
- xiii. **Baryamureeba V.** and Ngubiri J. (2006). On Improvement of the Volcano Search and Optimization Strategy, J. Dongarra, K. Madsen, and J. Wasniewski (Eds.), *Lecture Notes in Computer Science (LNCS)*, LNCS 3732, pp.839-846.
- xiv. **Baryamureeba V.** and T. Steihaug, (2006). On the Convergence of an Inexact Primal Dual Interior Point Method for Linear Programming, I.Lirkov, S. Margenov, and J. Wasniewski (Eds.), *Lecture Notes in Computer Science (LNCS)*, LNCS 3743, pp.629-637.
- xv. Lowu F. and **Baryamureeba V.** (2006). On Efficient Distribution of Data in Multicast Networks: QoS in Scalable Networks, I.Lirkov, S. Margenov, and J. Wasniewski (Eds.), *Lecture Notes in Computer Science (LNCS)*, LNCS 3743, pp. 518—525.
- xvi. Tushabe F. and **V. Baryamureeba**, (2005). Cyber Crime in Uganda: Myth or Reality? *Transactions on Engineering, Computing and Technology* V8, ISSN 1305-5313.
- xvii. Samson Okwakol Ariko and **Venansius Baryamureeba**. (2005). On Internet Access Technology Specification Model. *World Academy of Science, Engineering and Technology*, Issue 8, page 61 – 65.
- xviii. **Baryamureeba V.** (2004). Solution of Robust Linear Regression Problems by Krylov Subspace Methods, I. Lirkov et al. (Eds.), *Lecture Notes in Computer Science (LNCS)*, LNCS 2907, pp. 67-75.
- xix. **Baryamureeba V**, (2002). Solution of Large-Scale Weighted Least Squares Problems, *Numerical Linear Algebra with Applications*, Vol. 9, pp. 93—

- 106.
- xx. **Baryamureeba V.** (2001). The Impact of Equal-Weighting of Both Low-Confidence and High-Confidence Observations on Robust Linear Regression Computation, BIT Numerical Mathematics, Issue 41, No. 5, pp.847—855.
- xxi. **Baryamureeba V.** (2001). On Solving Large-Scale Weighted Least Squares Problems, I. Lirkov, J. Wasniewski and P. Yalamov (Eds.), Lecture Notes in Computer Science (LNCS), LNCS 1988, pp.59-67.
- xxii. **Baryamureeba V.**, Steihaug T. and Y. Zhang (1999). Application of a Class of Preconditioners to Large Scale Linear Programming Problems, Lecture Notes in Computer Science (LNCS), LNCS 1685, pp. 1044 -1048.
- xxiii. **Baryamureeba V.** and T. Steihaug, (1999). Computational Issues for a New Class of Preconditioners, Michael Griebel, Svetozar Margenov, Plamen Yalamov (Eds.), Large-Scale Scientific Computations of Engineering and Environmental Problems II, In Series Notes on Numerical Fluid Mechanics, Vol. 73, pp. 128--135, Vieweg.
- xxiv. **Baryamureeba V.** and T. Steihaug, (1999). On a Class of Preconditioners for Interior Point Methods, Nordic Section of the Mathematical Programming Society, Opuscula 49, ISSN 1400--5468.

## 10.2. Book Chapters

- i. Habinka A., Sol H.G., and **Baryamureeba V.**, (2009). “Knowledge Management for Small and Medium Enterprises in Developing Countries – Uganda: A Studio Based Approach”, *Conference proceedings of European Conference on Intellectual Capital: INHolland University of Applied Sciences, Haarlem, the Netherlands: April 28–29, 2009, ISBN: 987-1-906638-30-6CD*, pp. 246 – 253.
- ii. Habinka A., Sol H.G., and **Baryamureeba V.**, (2009). “Approaches towards Effective Knowledge Management for Small and Medium Enterprises in Developing Countries - Uganda” *IST-Africa 2009 Conference Proceedings, IIMC International Information Management Corporation, 2009, ISBN: 978-1-905824-11-3*.
- iii. **Baryamureeba V.** (2008). ICT-enabled Services: A Critical Analysis of the Opportunities and Challenges in Uganda. Special Topics in Computing and ICT Research Vol. 4, Janet Aisbett, Greg Gibbon, Anthony J. Rodrigues, Joseph Kizza Migga, Ravi Nath, Gerald R Renardel (Eds.), Strengthening the Role of ICT in Development. ISBN 978-9970-02-871-2, pp. 215-235.
- iv. Wakabi P., **Baryamureeba V.**, and K. Sarukesi (2008). Mining Generalized Association Rules Using Genetic Algorithms. Special Topics in Computing and ICT Research Vol. 4, Janet Aisbett, Greg Gibbon, Anthony J. Rodrigues, Joseph Kizza Migga, Ravi Nath, Gerald R Renardel (Eds.), Strengthening the Role of ICT in Development. ISBN 978-9970-02-871-2, pp.59-69.

- v. Tushabe F., Jehopio P, **Baryamureeba V**, Bagyenda P, and C. Ogwang, (2008). The Status of Software Usability in Uganda. Special Topics in Computing and ICT Research Vol. 4; Janet Aisbett, Greg Gibbon, Anthony J. Rodrigues, Joseph Kizza Migga, Ravi Nath, Gerald R Renardel (Eds.), Strengthening the Role of ICT in Development. ISBN 978-9970-02-871-2, pp. 1-11.
- vi. Lowu F. X. and **V. Baryamureeba** (2008). Delay-Optimized Path in Peer-to-Peer Networks. Special Topics in Computing and ICT Research ISBN 978-9970-02-871-2, Vol. 4, pp. 312-320.
- vii. Wakabi-Waiswa P. P. and **V. Baryamureeba**, (2007). Extraction of Interesting Association Rules Using Genetic Algorithms, Special Topics in Computing and ICT Research Vol. 3; Joseph Kizza Migga Janet, Aisbett Janet, Katherine Getao, Victor W Mbarika, Dilip Patel, Anthony J. Rodrigues (Eds.), Strengthening the Role of ICT in Development. ISBN 978-9970-02-730-9, pp. 101-110.
- viii. **Baryamureeba V.**, (2006). On Solving Large-Scale Linear Systems Arising from Interior Point Methods for Linear Programming, Joseph Kizza, Janet Aisbett, Andrew Vince, and Tom Wanyama (Eds.), Special Topics in Computing and ICT Research: Advances in Systems Modelling and ICT Applications, ISBN 13:978-9970-02-604-3; ISBN 10:9970-02-604-6, Vol. 2, pp. 50-64.
- ix. Angeyo J. S., **Baryamureeba V.**, and P. Jehopio, (2006). A Dynamic Framework for the Protection of Intellectual Property Rights in the Cyberspace, D. Williams and V. Baryamureeba (Eds.), Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 230-247.
- x. Ddembe W. and **V. Baryamureeba**, (2006). An Investigation of Heads of Computing Departments in Higher Education Institutions, D. Williams and V. Baryamureeba (Eds.), Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 3-11.
- xi. **Baryamureeba V.** and W. Ddembe, (2006). The Doctoral Programme in Computing at Makerere University: Lessons Learned and Future Improvements, D Williams and V. Baryamureeba (Eds.), Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 26-35.
- xii. **Baryamureeba V** and W. Ddembe, (2006). Inter-departmental Staff Transfers in a Multidisciplinary Research Environment: Towards Transfer Criteria for Academic Staff at Universities in Developing Countries, D Williams and V Baryamureeba (Eds.), Special Topics in Computing and ICT Research: Measuring Computing Research Excellence and Vitality, ISBN 13:978-9970-02-592-3; ISBN 10:9970-02-592-9, Vol. 1, pp. 36-43.

### 10.3. Conference Proceedings

- i. Wakabi-Waiswa, **V. Baryamureeba**, and K. Sarukesi, (2011). Optimized Association Rule Mining with Genetic Algorithms. Published in the Proceedings of the 7<sup>th</sup> International Conference on Natural Computation (ICNC'11), Shanghai, China, July 2011
- ii. Wakabi-Waiswa P.P. and **V. Baryamureeba**, (2011). Mining High Quality Association Rules Using Genetic Algorithms. Published in the Proceedings of The 22<sup>nd</sup> Midwest Artificial Intelligence and Cognitive Science Conference 2011, Cincinnati, USA, April 16-17.
- iii. Tushabe F. and **V. Baryamureeba** (2010). Implications of Cyber Crime on Social-Economic Development, At the launch of the African Center for Cyberlaw and Cybercrime prevention, The United Nations African institute for the prevention of crime and the treatment of offenders, 26 - 27<sup>th</sup> August 2010, Kampala, Uganda.  
TECH-1
- iv. Tushabe F, **Baryamureeba V.** and F. Katushemererwe, (2010). Translation of the Google Interface into Runyakitara. Published in the Proceedings of the 6<sup>th</sup> Annual International Conference on Computing and ICT Research - ICCIR 10, Kampala, Uganda, August 1- 4.
- v. Annabella Habinka, Henk Sol, **Venansius Baryamureeba.** (2009). Approaches Towards Effective Knowledge Management for Small and Medium Enterprises in Developing Countries – Uganda. IST-Africa 2009 Conference Proceedings 06 - 08 May 2009, Uganda
- vi. Kitoogo F. and **V. Baryamureeba**, (2007). The use of Meta-knowledge for Enhanced Classifier Combination. Annual Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT 2007) Fish River Sun, Sunshine Cost, South Africa, 30<sup>th</sup> September – 3<sup>rd</sup> October.
- vii. Muhirwe J. and **V. Baryamureeba**, (2007). Towards Computational Morphological Analysis for Kinyarwanda, the 1<sup>st</sup> International Conference in Computer Science and Informatics, Nairobi, Kenya' February 5-7.
- viii. Wakabi-Waiswa P. P. and **V. Baryamureeba**, (2007). An Improved Multi-Objective Algorithm for Association Rule Mining, 1<sup>st</sup> International Conference in Computer Science and Informatics, Nairobi, Kenya 5<sup>th</sup>-7<sup>th</sup> February 2007.
- ix. Kitoogo F.E. and **V. Baryamureeba**, (2007). On Classifier Combination for Better-Named Entity, Published in the Proceedings of the 1<sup>st</sup> International Conference in Computer Science and Informatics, Nairobi, Kenya February 5-7.
- x. **Baryamureeba V.** and T. Steihaug, (2000). Preconditioning for Iterative Methods in Robust Linear Regression. Presented at the 16<sup>th</sup> IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland. Published in the Conference Proceedings August 21-25.

- xi. **Baryamureeba V.**, (2000). A New Function for Robust Linear Regression: An Iterative Approach. Presented at the 16<sup>th</sup> IMACS World Congress on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland. Published in the Conference Proceedings 21<sup>st</sup>-25<sup>th</sup> August 2000.
- xii. **Baryamureeba V.**, (2000) Solution of Robust Linear Regression Problems by Preconditioned Conjugate Gradient Type Methods, Presented at "Sixth copper mountain conference on iterative methods, 3-7 April 2000, University of Colorado, USA". Paper for Hard Copy Proceedings. Technical Report No. 187, Department of Informatics, University of Bergen, 5020 Bergen Norway.

#### 10.4. Reports

- i. **Baryamureeba V.** (2000). Preconditioners for Sequences of Weighted Linear Systems, Technical Report No. 198, Department of Informatics, University of Bergen, 5020 Bergen, Norway.
- ii. **Baryamureeba V.** (2000). Basis Based Low-Rank Correction Preconditioners for Sequences of Weighted Least Squares Problems, Technical Report No. 205, ISSN 0333-3590, Department of Informatics, University of Bergen, 5020 Bergen, Norway.
- iii. **Baryamureeba V.**, and T. Steihaug (1999). Properties and Computational Issues of a Preconditioner for Interior Point Methods, Technical Report No. 180, ISSN 0333-3590, Department of Informatics, University of Bergen, 5020 Bergen, Norway.

#### 10.5. Dissertations and Books

- i. **Venansius Baryamureeba**, On Solving Large Sparse Linear Systems Arising from Linear Programming and Linear Regression. Ph.D. Thesis, Department of Informatics, University of Bergen, 5020 Norway. Copyright © 2000 Department of Informatics, University of Bergen, 5020 Norway
- ii. **Venansius Baryamureeba**, Primal-Dual Interior-Point Method using an Iterative Solver for the Linear System. M.Sc. Thesis, Department of Informatics, University of Bergen, 5020 Norway. Copyright © 1996 Department of Informatics, University of Bergen, 5020 Norway.
- iii. Venansius Baryamureeba, They Will See Him- Memoir of a Remarkable Life, ISBN 978-9970-477-04-3, 2015.
- iv. Venansius Baryamureeba, The Ideal Uganda: My Perspectives, ISBN 978-9970-477-02-9, 2014.
- v. Mary Komunte and Venansius Baryamureeba, Web Security: A Trust Model for Building Confidence in Business-to-Business Consumer



Electronic Commerce Transactions, ISBN-10: 3838379500; ISBN-13: 978-3838379500, LAP LAMBERT Academic Publishing, 2010.

## 10.6. Doctoral Examination Board and Graduate Supervision

### 10.6.1. Doctoral Examination Boards/Doctoral Thesis Reading Committee

Professor Baryamureeba has served as a member of the doctoral examination board/ doctoral thesis reading committee for the following PhD candidates:

- Dr. Johnson Mwebaze, Extreme data lineage in ad-hoc astronomical data processing, University of Groningen. Graduated on 30<sup>th</sup> November 2012.
- Dr. John Nabende, Applying Dynamic Bayesian Networks in transliteration detection and generation, University of Groningen. Dr. Nabende graduated on 2<sup>nd</sup> December 2011.
- Dr. John Ngubiri, Techniques and Evaluation of Processor Co-allocation in Multi-cluster systems, Radboud University Nijmegen. The Doctoral defence took place on 15<sup>th</sup> September 2008.
- Dr. Josephine Nabukenya, Improving Quality of Organizational Policy Making using Collaborative Engineering, Radboud University Nijmegen. The Doctoral defence took place on 3<sup>rd</sup> March 2009.
- Dr. Benjamin Kanagwa, Design, Discovery and Construction of Service Oriented Systems, Radboud University Nijmegen. The Doctoral defence took place on 21<sup>st</sup> April 2009.

### 10.6.2. Graduate Students Supervised to Completion

He has supervised several masters' students and postgraduate diploma students to completion. He has supervised 4 PhD students to completion and others are about to complete. Below are some of those he has supervised:

#### Masters (Plan A)

S/ N	REG NO.	NAME	TOPIC	STATUS
1	2002/HD18/182 5/U	Tushabe Florence B	Computer Forensics for Cyberspace crimes	Graduated 2005
2	2002/HD18/192 4/U	Ariko Okwakol Samson	On Internet Technologies Specification Model	Graduated 2005



3	2002/HD18/420 /U	Mwebaze Johnson	On Bandwidth Management	Graduated 2005
4	2002/HD18/423 /U	Ngubiri John	On Multi-Query Optimization in Relational Databases	Graduated 2005
5	2002/HD18/214 /U	Kakooza Fred Bernard	Adopting the Makerere University Network for IP Video Conferencing	Graduated 2006
6	2002/HD18/149 /U	Torach Julius Peter	On Public Key Infrastructure Implementation	Graduated 2006
7	2003/HD18/138 1/U	Ogwanga Cypriano	The Impact on Usability of Users' Involvement in software Development Projects	Graduated 2006
8	2003/HD18/588 U	Francis L. Xavior	On Efficient Distribution of Data in Multicast Networks: QoS in Scalable Networks	Graduated 2006
9	2004/HD18/206 6/U	Nakibuule Rose	Runtime Independent Deadline Scheduling on a Cluster of Workstations	Graduated 2007

## Masters Plan B

<b>S/ N</b>	<b>REG NO.</b>	<b>NAME</b>	<b>TOPIC</b>	<b>STATUS</b>
1	2001/HD18/174 6U	Acuc Emmanuel	On Elliptic Curve Cryptography	Graduated 2004
2	2001/HD18/176 4U	Mayanja Richard	On Building a flexible selection system	Graduated 2004
3	2002/HD18/436 /U	Nkuyahaga Aggrey	A Case Reasoning Framework for an intelligent Help Desk System: Implementation and Maintenance	Graduated 2005
4	2002/PGD18/25 8U	Agoa Topista Amuge	Floppy Based Linux Operating System for Computers with minimal Resources	Graduated 2006
5	2001/HD18/176 3/U	Komakech Gabriel	E-mail Supported, Agent- Based Portal for Automobile Sales	Graduated 2006
6	2003/HD1363/U	Kahiigi Kigozi Evelyn	A centralized identity Management System To Support Usage Of Shared Network Services	Graduated 2006
7	2003/HD18/140 8/U	Waibale C S Simon	Monitoring Computer Resources of Small-Medium Enterprises: The case of ERP adoption in Least Developed Countries	Graduated 2006

8	2003/HD18/137 1/U	Ssebadduka Mary	Risk Perception in Information Systems Projects	Graduated 2006
9	2003/HD18/142 5/U	Kahiigi Byamukama P	A Planning Tool for the Electricity Transmission Planning process	Graduated 2007
10	2004/HD18/158 8/U	Nambaziira Stella Maris	An Online Tool for Monitoring and Tracking Vaccine and Vaccine Logistics Utilization at District Level	Graduated 2006
11	2004/HD18/162 4/U	Mugabe Samuel	An Integrated Customer Relationship Management System for Mobile Telecom Operators	Graduated 2007
12	2004/HD18/157 6/U	Kyewalabye James Charles	Enhancing Property Rates Management Using N-Tier Architecture: A Case Study of Kampala City Council	Graduated 2008
13	2004/HD18/157 5/U	Kyanda Swaib B	A Web Based Voter Registration Tool	Graduated 2009
14	2005/HD18/361 5U	Malika Michael Balayo Ngati	Analysis of Wireless Local Area Network (WLAN) Security	Graduated 2008
15	2005/HD18/405 3U	Ssewankam bo Damian	A Simulation Model of Loan Servicing for Savings and Credit Cooperative Organisations	Graduated 2008

			(SACCOs) under the Poverty Alleviation Program	
16	2005/HD18/002 2U	Komunte Mary	A Trust Model for Building Confidence in Business-to Consumer Electronic Commerce Transactions	Graduated 2007

### PhD Students

S/N	REG NO.	NAME	TOPIC	STATUS
1	2005/HD18/4231U	Kitoogo Fredrick Edward	Improved Use of Machine Learning Techniques in Named Entity Recognition	Graduated 2010
2	2003/HD15/2461U	Wesonga Ronald	Stochastic Optimisation Models for Air Traffic Flow Management	Graduated 2011
3	2005/HD18/4235U	Wakabi Waiswa Peter Patrick	Association Rule Mining Using Evolutionary Computing	Graduated 2013
4	2005/HD18/4233U	Okori Washington	Computational Model for Prediction of Agricultural Drought Disaster	Graduated 2013

### **Postgraduate Diploma (PGD) in Computer Science graduates**

Since 2001, Professor Baryamureeba has supervised over 60 PGD students. For purposes of the record, three graduates are listed below.

<b>S/N</b>	<b>REG NO.</b>	<b>NAME</b>	<b>TOPIC</b>	<b>STATUS</b>
1	2001/PGD18/111/U	John Ngubiri	A Web Based Digital Directory For Makerere University Academic Staff	Graduated 2003
2	2002/PGD18/420/U	Johnson Mwebaze	Sales Settlement and Management System	Graduated 2003
3	2001/PGD18/059/U	Fred Kakooza	A System Proposal for the Establishment of the National Identification System for the Republic of Uganda	Graduated 2003

#### **10.7. Innovations**

- i. I discovered the Barya function, which has become one of the most used functions to solve engineering and economic problems that can be formulated as linear regression problems [BIT Vol. 41, No.5, pp. 847-855, 2001].
- ii. I established a new strategy for efficiently solving problems that can be formulated as linear programming problems or weighted least squares problems such as engineering problems in VLSI layout optimisation [Numer. Linear Algebra and Appl. Vol. 9, pp. 93-106, 2002] that has been adopted in many commercial and non-commercial solvers.
- iii. I together with Florence Tushabe developed the 'Enhanced Digital Investigation Process Model' [Asian Journal of Information Technology 5(7): pp. 790-794, 2006] that has been adopted worldwide in forensic investigations.

## 10.8. Curriculum Development

- i. He spearheaded the development and implementation of the curricula for the following programmes at Makerere University (for the period 2001 – June 2010):
  - Ph.D. programmes: Ph.D. in Computer Science, Ph.D in Software Engineering, Ph.D in Information Systems, and Ph.D in Information Technology;
  - Masters Programmes: M.Sc. in Computer Science, M.Sc. in Data Communications and Software Engineering, M.Sc. in Information Systems and Master of Information Technology;
  - Postgraduate Diploma Programmes: Post Graduate Diploma (PGD) in Computer Science, PGD in Data Communications and Software Engineering, PGD in Information Systems and PGD in Information Technology;
  - Undergraduate Degree Programmes: B.Sc. in Computer Science, Bachelor of Information Technology, Bachelor of Information Systems, and B.Sc. in Software Engineering.
  - Undergraduate Diploma Programmes: Diploma in Computer Science; and Diploma in Computer Science and Information Technology.
- ii. As Vice Chancellor of Makerere University (2009-2012), he spearheaded the review and restructuring of all academic programmes at Makerere University.
- iii. In addition, he took lead in the revision, design, and implementation of the computing curricula at Mbarara University of Science and Technology, Kyambogo University, Gulu University and Busitema University.
- iv. As Vice Chancellor of Uganda Technology and Management University (2012-2015), he spearheaded the development and implementation of 42 academic programmes i.e. a foundation certificate programme, 4 undergraduate diplomas, 21 Bachelor's degrees, 9 postgraduate diplomas, and 7 master's degrees in the fields of technology and management. For details visit the website: [www.utamu.ac.ug](http://www.utamu.ac.ug)

## 10.9. External Assessment

On request by the National Council for Higher Education (NCHE), Professor Baryamureeba has assessed several programmes in computing discipline in view of the following: content, organisation of the programme, pedagogy, expected

outcomes and literature proposed for the courses. Since 2007, he has recommended several computing programmes for accreditation to the NCHE.

#### **10.10. External Examination**

- External Examiner, Mkwawa University College of Education, A Constituent College of the University of Dar es Salaam, 2007;
- External Examiner, Department of Computer Science, Mbarara University of Science and Technology, 2003 to 2010;
- External Examiner, Faculty of Science and Technology, Uganda Christian University Mukono, 2004 – 2007;
- External Examiner, Department of Computer Science, National University of Zimbabwe, 2006 – 2008;
- External Examiner, School of Computer Studies, Kampala International University, 2002 – 2005.

#### **10.11. Visitation Committees**

- Member, NCHE Visitation Committee to Nkumba University (26 – 28 April 2011). This was a regular visit to enable NCHE know how the University was fairing and what progress it had made since its received its charter.
- Team Leader, Visitation Committee of the National Council for Higher Education (NCHE) to universities with Provisional Licenses in Central Uganda (4 – 7 April 2011). The committee assessed the different elements that contribute to quality delivery of academic programmes in these Universities. Institutions visited included: Cavendish University, International Health Sciences University, Mutesa 1 Royal University, Team Business College, African Bible University, Ernest Cook Ultrasound Research & Education Institute (ECUREI)- Mengo, St. Lawrence University, and Kampala University.
- Chairperson, External Programme Evaluation Committee on Computing and Information for the East African Community Universities (2008 – 2009). The committee visited universities in Kenya, Uganda, and Tanzania and assessed the different elements that contribute to quality delivery of academic programmes. The findings were shared with the Universities.
- Chairperson of the Visitation Committee for the proposed Busitema University, 13 - 14 February 2007 and came up with a report that formed a basis of the recommendations to the Minister of Education and Sports, the Parliament of Uganda and the President of Uganda. Busitema University was later set up by an Act of Parliament that was assented to by the President of the Republic of Uganda.

- Member, Verification Committee for the International Health Sciences University, 2008. The committee was asked to verify the facilities of the proposed Health Sciences University and give a comprehensive report, which formed part of the information and data needed that led to the grant of a provisional licence.
- Member, Visitation Committee to Nsamizi Institute for Social Development, 2007. Terms of reference were: to make a visitation to the institute and satisfy itself on the library facilities, the adequacy of qualified staff, lecture rooms, laboratories and other related facilities for teaching undergraduate degree programmes, and submit a report to Makerere University Senate. On the basis of the recommendations of the Committee, Nsamizi Institute for Social Development was affiliated to Makerere University.
- Member, Visitation Committee to the Regional Institute of Business and Management (RIBM), Kenya 2006. The terms of reference were: to assess and satisfy itself on the library facilities, adequacy of qualified staff, lecture rooms, laboratories and other facilities for conducting academic programmes; to assess and validate the likely areas for which affiliation would occur; and submit a report to Senate. The committee recommended no affiliation.

#### **10.12. Search Committees**

- Member, Search Committee for the Vice Chancellor of Busitema University, December 2018 – February 2019. The Search committee is undertaking its work and will present its report and recommendation to Senate on 20<sup>th</sup> February 2019.
- Chairperson of the Board that searched and successfully recruited the Executive Secretary of Uganda Business and Technical Examinations Board (UBTEB), 2016.
- Chairperson, Search Committee for Deputy Vice Chancellors of Mbarara University of Science and Technology, July 2015 – 9<sup>th</sup> September 2015. The Search Committee for Deputy Vice Chancellor Academic Affairs (DVC AA) And Deputy Vice Chancellor Finance and Administration (DVC F&A) was constituted at a special meeting of the University Senate held on 8<sup>th</sup> July 2015. The Committee presented its recommendations for the two Deputy Vice Chancellor positions in September 2015 and the recommendations were upheld by the Senate and Council and the Chancellor effected the appointments of the two Deputy Vice Chancellors in 2015/2016 FY; Associate Prof. Nickson Kamukama as Deputy Vice Chancellor for Academic Affairs and Associate Prof. Charles Tushabomwe Kazooba as Deputy Vice Chancellor for Finance and Administration.
- Member, Search Committee for the Vice Chancellor of Mbarara University of Science and Technology, 31<sup>st</sup> December 2013 – 22<sup>nd</sup> January 2014. The



Search committee undertook its work and presented its report and recommendation to Senate on 22<sup>nd</sup> January 2014. Prof. Celestino Obua who was recommended by the Search Committee to Senate as the best candidate was appointed by the Chancellor of Mbarara University of Science and Technology and assumed office on 24<sup>th</sup> October 2014.

- Member, Search Committee for the Deputy Vice-Chancellors of Busitema University, 2012. The mandate of the committee was to search, assess, and recommend three (3) suitable candidates for each of the above positions to Senate, from which Senate was to recommend one candidate for each position of Deputy Chancellor to the University Council for further recommendation to the Chancellor for appointment. The committee was later reconstituted and the recommendation for Deputy Vice Chancellor for Academic Affairs was made to Council by Senate and an appointment of Dr. Samuel Kucel as Deputy Vice Chancellor for Academic Affairs and Research was made by the Chancellor of Busitema University.
- Chair of the panel of experts that interviewed candidates shortlisted for the positions of Executive Secretary and Deputy Executive Secretary, Inter-university Council for East Africa (IUCEA) on 16 – 17 April 2010. Professor Baryamureeba was then the Chairperson of the IUCEA Governing Board. IUCEA appointed Professor Mayunga Habib Hemedi Nkunya from Tanzania to the post of the IUCEA Executive Secretary and Professor Pontien Ndabaneze from the Republic of Burundi to the post of the Deputy Executive Secretary. The two assumed office on 6<sup>th</sup> November 2010 and 1<sup>st</sup> September 2010 respectively.
- Member, Search Committee for the Deputy Vice-Chancellor of Mbarara University of Science and Technology, February – May 2010. The mandate of the committee was to search, assess, and recommend three suitable candidates for the position of Deputy Vice-Chancellor to Senate, from which Senate recommended one candidate to the University Council for further recommendation to the Chancellor for appointment. Associate Professor Pamela K. Mbabazi was appointed Deputy Vice Chancellor of Mbarara University of Science & Technology on 2<sup>nd</sup> August 2010.
- Chief Judge, maiden Annual Communications Innovations Awards (ACIA) 2010. These awards were organised by the Uganda Communications Commission (UCC) to promote innovations for evolutionary and incremental developments on previous innovations in the sector.
- Member, Search Committee for Vice-Chancellor of Busitema University, November 2008 – June 2009. The mandate of the committee was to search, assess and recommend three (3) suitable candidates for the position of Vice Chancellor to Senate, and Senate recommended the three candidates in order of preference to the University Council from which the Council made its recommendation to the Chancellor for appointment. Professor Mary J Okwakol was appointed Vice-Chancellor of Busitema University in 2009.
- Judge, African ICT Achievers Awards 2008. Since its inception in 1998, the African ICT Achievers Programme built a strong foundation of

recognition and reward for individuals and organizations that made a difference to the ICT industry in Africa. They should have proven achievement in business excellence, innovation, entrepreneurship or through having touched the lives of others less fortunate. They should have proven that their interaction continues to leverage ICTs to make a difference across the African continent. He served as a Judge for the 2008 Adjudication panel for the African ICT Achievers Awards Programme.

- Member, Search Committee for the Chancellor of Makerere University, June - November 2007. Section 30 of the Universities and Other Tertiary Institutions Act, 2001 as amended provides that there shall be a Chancellor for each Public University who shall be appointed by the President on the recommendation of the University Council. The University Council set up a search committee that commenced its work in June 2007 and finalized its work in September 2007. The Council adopted the search committee's recommendations and recommended Professor Mondo Kagonyera who was later appointed Chancellor of Makerere University by the President of the Republic of Uganda. Professor Mondo Kagonyera appointment was renewed for another term and he completed his second and final term in 2015.

## **11. National and International Conferences and Workshops Attended**

He has given keynote addresses, presentations and other talks at several national and international conferences both academic and business oriented. He has also attended workshops and retreats relevant to national development of Uganda. Some of these include:

- Baryamureeba, V. (2017), Keynote address: Data Science a Multi-Faceted Discipline (Data Science Engineering and Data Science Analysis). Africa Data Forum Johannesburg Conference, 24<sup>th</sup> February 2017.
- Baryamureeba, V., (2016), Keynote Address: Operations Research and ICT. 12th Operations Research Society for Eastern Africa (ORSEA) Conference, October 20-21, 2016, Hosted at the Faculty of Computing and Management Science Building, Makerere University Business School (MUBS), Kampala Uganda. 20<sup>th</sup> October 2016.
- Baryamureeba, V., (2015), Keynote Paper: Best Practices in E-learning, under the Theme: harnessing youth potential and innovation through ICT, at the Annual National Youth Conference (ANYC) held at UMA's main exhibition hall, in Kampala, Uganda.
- Baryamureeba, V., (2015), Keynote Address: Effective Use of ICT Tools in Implementing Uganda's Foreign Policy, under the Theme: Delivering on The

Strategic Objectives of The Ministry of Foreign Affairs, Uganda at the Ambassadors Annual Retreat and Conference, held at The Ministry of Foreign Affairs, Kampala, Uganda

- Baryamureeba, V., (2014), Keynote Address: Earmark Resources For Science, Technology and Innovation at the 4th Graduation Ceremony of All Saints University Lango (ASUL) held in Lira Municipality, Uganda
- Baryamureeba, V., (2014), Keynote Address: Best Practices For Implementation of E-Government Initiatives in Uganda with focus on E-Procurement, at The Launch Of The E-Procurement Strategy By Public Procurement and Disposal Of Public Assets Authority (PPDA) in Katonga Hall, at Serena Hotel In Kampala, Uganda
- Baryamureeba, V., (2014), Keynote Address: Role of TVET in Building Regional Economies under the theme: Competency Based Education and Green Skills For Work and Life In Post 2015 Africa, delivered at the Commonwealth Association of Polytechnics in Africa (CAPA) conference at, Imperial Resort Hotel, Entebbe, Uganda
- Baryamureeba, V., (2014), Keynote Address: University Education and Research for Social Transformation. Myth Or Reality For Uganda delivered at the Uganda Martyrs University (UMU)'s Annual Research Conference, held at the Main Campus in Nkozi, Masaka District
- Baryamureeba, V., (2014), Keynote Address: Using Technology to Enhance Service Delivery in a SACCO, at the Wazalendo SACCO Retreat held at Hotel Paradise in Jinja District
- Baryamureeba, V., (2014), Keynote Address: Regional Research and Innovation Collaborations Key for Eastern Africa's Development, under the theme: Reflections, Applications and Potential of Operations Research, at the closing ceremony of the 10th Operations Research Society of Eastern Africa (ORSEA) Conference and Celebrations
- Baryamureeba, V., (2014), Keynote Address: Role of Social Media in improving Service Delivery; at the official launch of the 1st East Africa Social Media Conference at Royal Suites in Bugolobi, Kampala, Uganda
- Baryamureeba, V., (2014), Keynote Address: ICT Integration in Higher Education: Perspectives and Way Forward; ICT conference held in Yaoundé Cameroon during ICT conference held in Yaoundé Cameroon
- Baryamureeba, V., (2014), Keynote Address: On the Current Skills Development Process in Uganda and its Relevance to the World of Work, under the theme: Skilling Uganda for Enhanced Productivity and Development at the Education and Sports Sector Review Workshop held at Imperial Royal Hotel
- Baryamureeba, V., (2014), Keynote Address: Higher Education Governance and Quality Assurance Systems, Experiences from Uganda", delivered at a public lecture held at the Turfloop Graduate School of Leadership (TGSL), University of Limpopo in South Africa
- Baryamureeba, V., (2014), Keynote Address: Commitment The Key To Success, delivered at the MasterCard foundation scholars program

leadership congress held at Hana Mixed School, Nsangi, Off Masaka Road, Kampala, Uganda.

- “Role of TVET in Building Regional Economies”, a keynote address at the IVETA Regional Conference held at Hotel Africana, in Kampala, Uganda, on 18th June 2014
- Baryamureeba, V., (2014), Keynote Address: Information Technology (IT) Education in the COMESA Region: Way Forward for Uganda”. Keynote address delivered during the Post e-Learning Africa Conference Action seminar at Trinity College, Nabbingo, in Wakiso District, Uganda
- Baryamureeba, V., (2014), Keynote Address: Science, Innovation and Economic Development; at the 2nd International Conference on Society for Advanced Science in Africa (SASA) at Hotel Africana. Kampala, Uganda
- Baryamureeba, V., (2014), Keynote Address: Unlocking Entrepreneurial Skills through ICT; Keynote address during the 7th Graduation Ceremony of Uganda Institute of Communication and Technology (UICT), Kampala, Uganda
- Baryamureeba, V., (2014), Keynote Address: ICTs and Social media platforms to Improve Service Delivery; Key note address made during the training workshop on Foundations of Government Information Leadership held at the International Resource Centre in Kampala, Uganda
- Baryamureeba, V., (2014), Keynote Address: Science, technology and innovation to steer regional integration agenda at the opening ceremony of the Common Market for Eastern and Southern Africa (COMESA) Summit of Heads of State and Governments held in the Democratic Republic of Congo (DRC)
- Baryamureeba, V., (2014), Keynote Address: Embracing ICT, Public Diplomacy and Social Media as Vehicles of Promoting Socio-Economic Transformation at the Ambassador's Forum, Kampala, Uganda.
- Professor Baryamureeba participated in the World Innovation Summit for Education that took place in Doha, Qatar, 13-15 November 2012.
- Professor Baryamureeba participated in the sixth annual meeting of the Secretary-General’s Global Colloquium of University Presidents that convened at Columbia University, April 2<sup>nd</sup>-3<sup>rd</sup>, 2012. The Global Colloquium of University Presidents is convened by the presidents of the five sponsoring institutions -- Lee C. Bollinger (Columbia University), Amy Gutmann (University of Pennsylvania), Richard Levin (Yale University), John Sexton (New York University), and Shirley Tilghman (Princeton University) -- on behalf of and with the participation of UN Secretary-General Ban Ki-moon. The subject was the global policy impact—particularly in terms of escalating demands on job creation and education—posed by extremely high rates of population growth seen today in virtually every developing nation in the Global South.
- Attended the 8<sup>th</sup> International Congress on Higher Education ‘Universidad 2012’ in Havana Cuba from February 13<sup>th</sup>–17<sup>th</sup>, 2012. The theme of the Congress was ‘The University for Sustainable Development’.

- Plenary Speaker at the IAU 2011 International Conference hosted by Kenyatta University (KU) in Nairobi, Kenya from November 16<sup>th</sup>–18<sup>th</sup>, 2011 under the theme “Strategies for Securing Equity in Access and Success in Higher Education”. Presented on the topic, “Institutional Policies and Strategies for Securing Equity in Access & Success in Higher Education”
- Plenary Speaker at the 4<sup>th</sup> Euro-Africa Cooperation Forum on ICT Research in Cape Town, South Africa (International Convention Centre, ICC) November 14<sup>th</sup>-15<sup>th</sup>, 2011 under the theme “Teaming-up for a Strengthened and Coordinated Approach to Foster Euro-African Innovative Cooperation on ICT”. Presented on the topic, “Building & Strengthening Capacities In ICT Research. Reinforcing Research Capacity in Africa: Trends, Gaps and Opportunities”
- Plenary Speaker at the IAU 2011 International Conference hosted by Kenyatta University (KU) in Nairobi, Kenya from November 16<sup>th</sup>–18<sup>th</sup>, 2011 under the theme “Strategies for Securing Equity in Access and Success in Higher Education”. Presented on the topic, “Institutional Policies and Strategies for Securing Equity in Access & Success in Higher Education”
- Plenary Speaker at the 5<sup>th</sup> Modern University and Research Management workshop for the five public Universities in Uganda on 4<sup>th</sup> and 5<sup>th</sup> February 2011 at Lake Victoria Serena Resort under the theme ‘Building and Sustaining Partnerships among the Public Universities in Uganda’. Presented on the topic, ‘The NPT-ICT Project in the Public Universities in Uganda: Achievements, Challenges, Lessons Learnt and the Way Forward’
- Speaker, “3<sup>rd</sup> Euro- Africa Cooperation Forum on ICT Research”, 15<sup>th</sup> -16<sup>th</sup> December 2010, Helsinki Finland. Topic, ‘Presentation Title: E-Learning and Teaching Systems for Universal Digital Access’.
- The United Nations Secretary-General Ban Ki-moon invited Presidents and Vice Chancellors to participate in the Colloquium under the theme, ‘the Roles of Science in Meeting Global Challenges: Broadening the Base and Organizing the Summit’. This took place on January 14<sup>th</sup>–15<sup>th</sup>, 2010 at Yale University.
- Speaker, 2<sup>nd</sup> NCHE Workshop on Ideas and Models for Financing Higher Education, 17<sup>th</sup> September 2009. The topic was ‘Financing of Makerere University Faculty of Computing and IT up to June 2009’.
- Plenary Speaker, at the 36<sup>th</sup> Global health Council Annual Conference on the theme “New Technologies + proven Strategies = healthy Communities. 26<sup>th</sup>-30<sup>th</sup> May 2009, Washington DC. The Global Health Council’s annual conference is recognised as one of the premier, “must attend” events of the year in the field of global health. Its unique contribution lies in its ability to bring together a diverse group of over 2500 leaders and implementers from more than 85 countries for dialogue and the substantive exchange of information on the wide range of global health issues.
- Organizer of the 1<sup>st</sup> ICT Education Innovative Forum in Uganda workshop, 30-31<sup>st</sup> March 2009. The Ministry of Education and Sports, in partnership with Microsoft have been pursuing various activities aimed at improving access to and use of Information and Communication Technology (ICT) in

Post-Secondary schools in Uganda through a memorandum of understanding signed in 2004. The partnership aims at facilitating Ugandan schools to access ICTs, both equipment and skills, so that pupils and students get exposed to ICT early in their education. Makerere University Faculty of Computing and IT and ICT Consults Ltd were partners to this memorandum of understanding.

- Guest of Honour, at a public dialogue on online journalism: “The Opportunities and Challenges of Online Journalism in Uganda” held on 17<sup>th</sup> March 2009 at the Department of Women and Gender Studies, Makerere University
- Plenary Speaker at the 2<sup>nd</sup> Consultative workshop on ICT Training and Research Partnerships in Uganda, 5<sup>th</sup> December 2008, Grand Imperial Hotel, Kampala, Uganda. He presented a paper on “Capability Profile of the Public Universities: Exploring Opportunities for Collaboration”. The objectives of the workshop were to demonstrate the capability of the public universities in fostering ICT development in Uganda; to identify the missing gap in the computing training programmes; to interest the industry to avail their ICT challenges as potential projects for University students; and to identify strategies that would enable the Universities improve their visibility. He was also the organizer of the event.
- Chief Organizer/ host of EuroAfrica-ICT awareness workshop and presented a plenary paper/ opening address at the Euro-AfriAca-ICT-FP7 awareness workshop on supporting FP7/ICT proposals involving sub-Saharan African Organizations, 20<sup>th</sup> and 21<sup>st</sup> October 2008.
- Speaker, at a workshop on “Academic Partnerships between Universities in Africa and the United States. 13<sup>th</sup>-15<sup>th</sup> December 2008, Princeton University.
- Panelist at the Opening Session and Conference Committee Member at the “Technical Skills Africa Conference”, 8<sup>th</sup>-10<sup>th</sup> December 2008, Johannesburg, South Africa. The conference assisted stakeholders involved in the power, mining, ICT and infrastructure industries to develop skills strategies, analyse the cause and effect of skills shortages and learn how technical skills can be enhanced in order to meet the demand being experienced by these industries.
- Presented a paper to session on meet the Professor on: From Ph.D. to Dean in 5 Years: A Success Story in Capacity Building. Presented at the 3<sup>rd</sup> Conference on Global Health and Vaccination Research supported by the Research Council of Norway and the Norwegian Forum for Global Health Research, 30<sup>th</sup>-31<sup>st</sup> November 2008.
- Presented a plenary paper under the plenary session Experiences from Partnerships in Global Health on Development of a Modern University in Africa—a NORAD/ NUFU/GLOBVAC Experience. Presented at the 3<sup>rd</sup> Conference on Global Health and Vaccination Research supported by the Research Council of Norway and the Norwegian Forum for Global Health Research, 30<sup>th</sup>-31<sup>st</sup> November 2008.
- Presented a plenary paper on University Management: Case of a University Academic Department. Background Paper for the Workshop on Modern

University & Research Management, 16<sup>th</sup>-18<sup>th</sup> October 2008 held at Collin Hotel Mukono, Uganda. He was also the organizer of the event.

- Attended IBM Global Innovation Outlook - Johannesburg – 9<sup>th</sup> October 2008. Joined a select group of leaders from business, government and academia in the culmination of a yearlong examination of economic development and opportunity in Africa.
- Presented a plenary paper on Quality Assurance in Institutions of Higher Learning. A Background Paper for the Workshop on Quality Assurance, 4<sup>th</sup>-6<sup>th</sup> September 2008 held at Colline Hotel Mukono, Uganda. He was also the organizer of the event.
- Keynote address, On the Role of ICT in the Integration of East Africa Community, 22<sup>nd</sup> August 2008, Uganda Christian University, Mukono, Uganda at the Annual East African community students' and cultural summit from 21<sup>st</sup>-23<sup>rd</sup> August 2008, under the theme; "The role of culture and sports on the millennium challenges among the youth in East Africa." Organized by the East African Community Students' Union (EACSU)
- Discussant of the paper Presented by the Minister of State for Higher Education, Hon Gabriel Opio "On the Impact of Higher Education on the Economy", Organized by 'The Union of Associated Peers for Knowledge Dissemination', 22<sup>nd</sup> August 2008, UMA Conference Hall, Kampala, Uganda. The President of the Republic of Uganda was the Guest of Honour.
- Keynote address on "Using Technology to Communicate Effectively and Promote Good Leadership". Uganda National Guild Presidents Council. Theme: Good Leadership in Institutions of Higher Learning, a Basis for Democracy and National Development. 1<sup>st</sup>-3<sup>rd</sup> August 2008, Makerere University, Uganda.
- Facilitator of the Workshop on the Promotion and Appointment Policy of Kampala International University, 12<sup>th</sup> July 2008, Protea Hotel, Kololo, Kampala.
- NOVATECH 2008, the ICT Africa Market Place; 13<sup>th</sup>-15<sup>th</sup> February 2008. This provided platform companies/ organizations from both Africa and Europe to interact. He also chaired the committee on ICT skills.
- Presented a plenary paper on 'The Status/ Developments in ICT Training and Research in Uganda' at the Consultative Workshop on ICT Training and Research Partnerships in Uganda, 18<sup>th</sup> December 2007, Serena Hotel, Kampala, Uganda. He was also the organizer of the event.
- Public Services Summit 2007, 8<sup>th</sup>-11<sup>th</sup> December 2007, City of Stockholm. The summit provided the opportunity to explore how the public sector is using (internet) network as a platform the way it works, to enhance access to information and resources and to create rich, two-way links with citizens.
- IBM Global Innovation Outlook, 4<sup>th</sup> December 2007, New York. Participated as a panelist the IBM Global Innovation Outlook (GIO) for Africa co-hosted by IBM's Executive Vice-President for Innovation and Technology, Nick Donofrio and Senior Vice President, IBM Global Services, Ginni Rometty. The meeting took place in New York City on Tuesday 4<sup>th</sup> December 2007 at the Millennium Broadway Hotel.

- IBM Global Innovations Outlook, Cape Town, September 4<sup>th</sup>-5<sup>th</sup>, 2007. The topic of discussion was 'Enabling economic growth to accelerate positive change. Representatives attended this meeting from business, science, government, NGOs and academia.
- Annual International Conference on Computing and ICT Research, Makerere University Kampala, 2005 to date. I have attended and presented papers at the above conference every August of every year since 2005. For details visit: <http://cit.mak.ac.ug/iccir/>
- Presented a Plenary paper on Leadership and Strategic Management in Higher Education Institutions in Uganda. Paper for the Workshop on Modern University & Research Management, 23<sup>rd</sup>-25<sup>th</sup> November 2007 held at Colline Hotel Mukono, Uganda. He was also the organizer of the event.
- Presented a Plenary paper on The Role of ICT in Quality Assurance and Enhancement in Higher Education Institutions in Uganda. A paper presented at The Quality Assurance Workshop, 2<sup>nd</sup>-4<sup>th</sup> November 2007, Mukono, Kampala. He was also the organizer of the event.
- Facilitator, Leadership and Management Skills for Heads of Departments, 13<sup>th</sup>-29<sup>th</sup> June 2007. I handled the topic on 'leadership and strategic management: challenges and opportunities at Makerere University'.
- Makerere University Council Orientation Retreat (15<sup>th</sup>-17<sup>th</sup> February 2007). This workshop was to acquaint Council members with Makerere University operations and also provide a visioning opportunity for Council members over the next four years.
- Makerere University Planning Retreat (9<sup>th</sup>-13<sup>th</sup> February 2007). Attended and chaired the session on Private Sector expectations from Makerere University. This retreat discussed ideas that will lead to the Makerere University Strategic Plan for 2008-2018.
- The Uganda National Consultative Forum on Open and Distance learning: Opening New Frontiers for Equity and Quality Education through Open and Distance Learning, 6<sup>th</sup>-8<sup>th</sup> December 2006. The objectives of the forum were to: Bring together all key stakeholders from the Ministries, educational institutions and representatives of the civil society to examine the potential of open and distance learning to reach all levels of education; To explore the ways in which distance education methodologies can serve to fulfil the development needs of Uganda; and To establish a consensus on the broad framework for a national policy on Open and Distance Learning.
- Specialized ICT Committee of the Universities in East Africa, Nairobi Kenya, 26<sup>th</sup>-27<sup>th</sup> November 2006. Attended and presented a paper at the ICT/Computer Science specialist meeting organised by the Inter University Council of East Africa. Matters concerning research, teaching and learning in the area of ICT were discussed and resolutions reached. It was also agreed that a permanent committee on ICT be formed.
- Partnership for Higher Education in Africa which was launched in 2000 by Carnegie Corporation of New York, the Ford Foundation, MacArthur Foundation, Rockefeller Foundations, The William and Flora Hewlett Foundation and the Andrew W. Mellon Foundation in cooperation with the



University of Cape Town and the U.S. National Academy of Sciences organized a forum, 18<sup>th</sup>-22<sup>nd</sup> November 2006, the first in an anticipated series that brought together African university Vice Chancellors and other leaders to explore "Frontiers of Knowledge for Science and Technology,". He was one of the speakers at this first forum. He gave a talk on "Curricula for Creating Human Capital Needed For ICT-Led Economic Growth: Case of Faculty Of Computing and IT, Makerere University".

- Microsoft Research Academy Days, Cape Town, South Africa, 24<sup>th</sup>-26<sup>th</sup> November 2006.
- Chief Guest - The Students of Uganda Christian University Mukono organised a one-day conference on November 11<sup>th</sup> 2006. The main objective of the conference was on "The Role of ICT in Socio-Economic Development". He was the chief guest at this function and he gave a keynote address on the theme 'ICT as a resource for Socio-Economic Development'.
- Keynote Address at the 3<sup>rd</sup> Annual Research Conference of Mbarara University of Science and Technology, 26<sup>th</sup>-27<sup>th</sup> October 2006. Theme: Strengthening Research in Universities for Sustainable Growth and Development. He gave a keynote address on the topic: Harnessing Information and Communication Technologies to Accelerate Economic Development – Opportunities for African Universities.
- The Congress of African Scientists and Policy Makers, Alexandria, Egypt, 26<sup>th</sup>-28<sup>th</sup> October 2006. The African Union Commission was honoured to have the theme "Science, Technology and Research for Africa's Development" assigned to the January 2007 summit of Heads of State and Government. This honour presented a great opportunity to Heads of State and Government to have a focused discussion on Science and Technology (S&T) as instruments and catalysts for our continent's socio-economic development. Science and Technology development requires the full support of the leadership and should be visibly recognised at all levels of decision making in the African Union and in the individual countries. In preparation for the January Summit, the African Union Commission organized several meetings and conferences among them the Congress of African Scientists and Policy Makers that took place in Alexandria, Egypt, from 26<sup>th</sup>-28<sup>th</sup> of October 2006. He was one of the representatives of Uganda at this congress.
- Realizing Uganda's Competitive Potential: A National Workshop on Achieving Prosperity and Economic Growth Through Wealth Creation, Sheraton Hotel, Kampala, August 29—August 30 2006. On Tuesday August 29 and Wednesday, August 30, Uganda held its 1<sup>st</sup> National Competitive Workshop. This event was sponsored by the medium Term Competitiveness Strategy under the auspices of the Ministry of Finance, Planning and Economic Development, the Private Sector Foundation Uganda, the United States Agency for International Development, the British Department for International Development, The Royal Netherlands Embassy, the World Bank and the European Union. The objective of the workshop was to define the steps that Uganda must take to develop and implement a competitiveness agenda that will leverage private sector innovation and investment to create

jobs and generate wealth for the country. The keynote address was delivered by Garret Fitz Gerald, former Prime Minister of Ireland, who led the country through a period of economic turn-around in the 1980s that ushered in an era of unprecedented economic growth.

- Attended and successfully completed a one-day training workshop on pedagogical skills conducted on the 6<sup>th</sup> February 2006 by the Department of Higher Education, School of Education, Makerere University, Uganda
- Attended and successfully completed a Leadership and Management Development training held at Imperial Resort Beach Hotel, Entebbe, Uganda from January 27<sup>th</sup>-29<sup>th</sup> January 2006 by Horizon International Ltd.
- International Floos and Free Knowledge workshop, held in Pretoria, 20<sup>th</sup>-24<sup>th</sup> September 2006
- Local Governance and ICTs Research Network for Africa Workshop, 3<sup>rd</sup>-5<sup>th</sup> September 2005, Nairobi, Kenya
- Conference on large scale scientific computations, Sozopol, Bulgaria, 4<sup>th</sup>-11<sup>th</sup> June 2005
- Nuffic conference- Changing the landscape, 23<sup>rd</sup>-25<sup>th</sup> May 2005, The Hague, The Netherlands. The theme of the conference was on how to make support to tertiary education and research in developing countries more effective.
- Regional workshop on e-governance to enhance reforms and public service performance in Africa, held in Ghana, 22<sup>nd</sup>- 25<sup>th</sup> November 2004
- African Development Forum (ADF IV) organized by the United Nations Economic Commission for Africa, 11<sup>th</sup>-15<sup>th</sup> October 2004. The purpose of the forum was to establish a highly focused African driven development agenda that reflects consensus among governments, major stakeholders, and partners on key development issues.
- UNESCO Expert Group meeting for 'Developing the e-campus model for Africa, Pretoria, South Africa, 9<sup>th</sup>-11<sup>th</sup> November 2004
- International Conference on digital forensics, Maryland, USA, 7<sup>th</sup>-15<sup>th</sup> August 2004; plenary paper on 'Enhanced Digital Investigation Process'.
- National Council for Higher Education Capacity Training workshop, 26<sup>th</sup>-30<sup>th</sup> July 2004, Jinja Nile Resort Hotel, Uganda; presented paper on ICT Use and Management in Institutions of Higher Learning.
- Coordinating Computing Training in Ugandan Tertiary Institutions and Hosting the Computing National Curriculum Development Centre. On 15<sup>th</sup> March 2004, Makerere University Institute of Computer Science (MUICS) hosted a one-day workshop for all Deans/Directors/Heads of Computer Science Faculties/Institutes/Departments of all public and private Institutions in Uganda.
- 3<sup>rd</sup> International Conference on ICT and Economic Development, 3<sup>rd</sup>-5<sup>th</sup> March 2004, Accra Ghana.
- Cisco Academy Conference, 22<sup>nd</sup>-24<sup>th</sup> November 2003, Johannesburg, South Africa
- Microsoft Research .NET Regional Crash Course conducted by Microsoft Research, Cambridge, UK. June 21<sup>st</sup> to June 23<sup>rd</sup> 2003 in Dubai, UAE.

- Fourth International Conference on Large-Scale Scientific Computations (ICLSSC) June 3<sup>rd</sup>-8<sup>th</sup>, 2003, Sozopol, Bulgaria
- Regional Conference on Information and Communication Technologies and Continuing Medical Education in East and Southern Africa, Moshi, Tanzania, 8<sup>th</sup>-10<sup>th</sup> April 2003.
- 16<sup>th</sup> IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation in Lausanne, Switzerland August 21<sup>st</sup>-25<sup>th</sup>, 2000
- The International Conference on Numerical Mathematics on the 40th Anniversary of the journal BIT" August 9<sup>th</sup>-12<sup>th</sup>, 2000, Lund, Sweden.
- The 9<sup>th</sup> Stockholm Optimization Days, the Royal Institute of Technology (KTH) in Stockholm, Sweden, on June 26<sup>th</sup>-27<sup>th</sup>, 2000.
- The 2<sup>nd</sup> Conference on Numerical Analysis and Applications, June 11<sup>th</sup>-15<sup>th</sup>, 2000, Rouse, Bulgaria. PARA2000, International Workshop on Parallel Computing, Bergen, June 2000.
- Sixth copper mountain conference on iterative methods, 3<sup>rd</sup>-7<sup>th</sup> APRIL 2000, University of Colorado, USA.
- The Sixth Meeting of the Nordic Section of the Mathematical Programming Society (Nordic MPS'99), Mälardalen University, Västerås, Sweden September 25<sup>th</sup>-26<sup>th</sup>, 1999.
- European Conference on Parallel Computing, 1999 (Euro-Par99), August 31<sup>st</sup>-September 3<sup>rd</sup>, 1999.
- The 1999 International Conference on Preconditioning Techniques for Large Sparse Matrix Problems in Industrial Applications (Sparse'99), Minneapolis, Minnesota, USA, June 10<sup>th</sup>-12<sup>th</sup>, 1999.
- 2<sup>nd</sup> Workshop on Large-Scale Scientific Computations (WLSSC'99), June 2<sup>nd</sup>-6<sup>th</sup>, 1999, Sozopol, Bulgaria.
- The 6<sup>th</sup> SIAM Conference on Optimization (SIAM OPT99), May 10<sup>th</sup>-12<sup>th</sup>, 1999, Atlanta, Georgia.
- The Workshop on High Performance Computing in Optimization, Netherlands, 1997.
- The 9<sup>th</sup> Nordic Workshop on Programming theory" in Estonia, 1997.
- Symposium on High Performance Computing at Department of Informatics, University of Bergen, Norway, 1997.
- Norwegian Numerical Conference (NNM97), Bergen, 1997

## **12. Special Events**

- On 24<sup>th</sup> February 2012, Hon Professor Peter Anyang Nyongo, Minister of Medical Services, Republic of Kenya, gave the 4<sup>th</sup> Makerere Africa Lecture on “Social Transformation in Contemporary Africa: Reminiscences of Dr. Joshua B. Mugenyi”. On this day, Professor Apolo Nsibambi, Former Prime Minister of Uganda and Former Chancellor, Makerere University launched the Dr. Joshua B. Mugenyi Social Transformation Foundation.

- On 24<sup>th</sup> February 2012, Dr Shelby F. Lewis, Deputy Chair of the J.W Fulbright Foreign Scholarship Foundation Board, gave the 3<sup>rd</sup> Makerere Africa Lecture on: “The Fulbright Scholarship and Africa during President Obama’s Administration”.
- On 24<sup>th</sup> January 2012 at the 62<sup>nd</sup> Graduation Ceremony of Makerere University, H.E. Dr. Emilio Stanley Mwai Kibaki, President of the Republic of Kenya was awarded an Honorary Doctor of Laws of Makerere University in recognition of his distinguished and outstanding contribution to public service at the national, regional and international levels especially in the areas of Academic Excellence, Political, Social and Economic reforms. H.E. Dr. Gen Yoweri Kaguta Museveni, President of the Republic of Uganda also Visitor of Makerere University graced this occasion.
- On 20<sup>th</sup> January 2012, H.E Thabo Mbeki, the former President of the Republic of South Africa, delivered the 2<sup>nd</sup> Makerere Africa Lecture on “The Architecture of Post-Cold War Africa: Between Internal Reform and External Intervention”, and this was followed by a public question and answer session on "Africa and the World: Intervention and Reform”.
- On 12<sup>th</sup> January 2012, Professor George Mondo Kagonyera was installed as Chancellor of Makerere University for the 2<sup>nd</sup> and last term. H.E. Edward Kiwanuka Sekandi, the Vice-President of the Republic of Uganda, representing the Visitor of Makerere University, H.E President Yoweri Kaguta Museveni presided over the Installation.
- On 2<sup>nd</sup> December 2011, Makerere hosted a high profile public lecture in rebirth of the Makerere Africa Lecture Series; in celebration of East Africa’s 50 years of Independence; and for inauguration of the Board of Trustees of the Female Scholarship Foundation (FSF). Our outstanding alumnus and former Guild President, Hon Professor Peter Anyang Nyongo, Minister of Medical Services, Republic of Kenya, delivered the lecture on ‘Ending the Servitude of Life Givers: The Liberation of East African Women since Nyerere's Equality Call’ This was the 1<sup>st</sup> Makerere Africa Lecture Series.
- On October 21, 2011, Her Royal Highness, The Nnabagereka of Buganda and Patron of the Makerere University Female Scholarship Foundation visited Makerere University for the first time. She addressed distinguished scholars, Ministers from the Government of Uganda, Ministers from Buganda Kingdom, Makerere University Council and Management, staff, students and alumni of Makerere University. The Nnabagereka highlighted key areas that still need intervention including access of women to health systems and education services, and unemployment among the youths. She also visited the # 95 Quarry House where Ssekabaka Edward Mutesa II lived in 1943-1945, while studying at Makerere University.
- On October 10<sup>th</sup>, 2011, The Kenyan Vice President, Minister for Home Affairs, and Member of Parliament for Mwingi North Constituency H.E. Hon. Dr. Stephen Kalonzo Musyoka visited Makerere University and delivered a public lecture on the topic "East Africa in Development Transition: The Light ahead is not an Oncoming Train." In attendance was; The Minister for Education and Sports Hon. Jessica Alupo, State Minister for Higher Education Hon. Dr.

John Chrysostom Miyingo, The Chancellor Professor Georgo Mondo Kagonyera, The Chairperson Council Eng. Dr. Charles Wana-Etyem among other dignitaries.

- On February 4<sup>th</sup>, 2011, James Steinberg, the American Deputy Secretary of State visited Makerere University to deliver a public speech on "U.S. Priorities in Africa and the Region". The speech was followed by a discussion. Mr. James B. Steinberg is the Deputy Secretary of State, serving as the Principal Deputy to Secretary Clinton.
- October 9<sup>th</sup>, 2010, Professor Baryamureeba, Vice Chancellor of Makerere University received a certificate of recognition awarded to Makerere University from H.E. Y. K. Museveni, the President of the Republic of Uganda for the tremendous contribution made in skills training, patriotism, and job creation for the youth of Uganda.
- On the 24<sup>th</sup> July 2010, Professor Baryamureeba the Vice Chancellor had the pleasure of meeting the former British Prime Minister Hon. Gordon Brown at the Kampala Serena Hotel to discuss global issues in regard to the role of ICT in knowledge driven economy.
- Professor Baryamureeba, Vice Chancellor of Makerere University, had the honour of meeting with Former President of the United States of America Jimmy Carter and his wife; and Former President of Mozambique, Joaquim Chicano. This was during a Borlaug Symposium in Addis Ababa, July 13<sup>th</sup>–14<sup>th</sup>, 2010.
- Commonwealth Day, Marlborough House, London (8<sup>th</sup> March 2010). The Commonwealth Secretariat- General Kamallesh Sharma invited the Vice Chancellor to attend the Commonwealth Day Celebrations under the theme for 2010 'Science, Technology and Society'. High-level dignitaries from all Commonwealth Countries commemorated the day. Her Majesty the Queen, Head of Commonwealth and His Royal Highness, the Duke of Edinburgh, Kamallesh Sharma, Commonwealth Secretariat-General and H.E. Paul Kagame, President of Rwanda, graced it.
- On 28<sup>th</sup> December 2009, a Team from the Faculty of Technology led by the Vice-Chancellor Professor Baryamureeba met with the President of the Republic of Uganda at State House Entebbe, where he pledged the Government's support to allocate resources to the tune of Uganda Shillings 25 billion over 5 years aimed at rehabilitation of laboratories and funding selected research projects.
- H.E Museveni visited Makerere University twice - from September 30<sup>th</sup> to October 2<sup>nd</sup>, 2009, the Department of Food Science and Technology under the Faculty of Agriculture hosted a three-day exhibition where the President of Uganda, His Excellency Y.K. Museveni was the chief guest. On December 9, 2009, H.E Y.K. Museveni visited the Faculty of Technology, where he toured various projects. He also met Makerere University management.
- H.E William Benjamin Mkapa: Former President of the United Republic of Tanzania and an alumnus of Makerere University visited Makerere University as the Chief Guest at the Grand Alumni Re-union from 27<sup>th</sup> - 28<sup>th</sup> November 2009. He was awarded an Honorary Doctorate of Laws of Makerere University.

- President Pierre Nkurunziza: On the first day of his visit to Uganda, H.E Pierre Nkurunziza, President of the Republic of Burundi paid a courtesy visit to Makerere University Faculty of Computing & IT to witness and learn more about Uganda's strides in the area of ICT. He was in Uganda for a state visit from May 28 - 30, 2009.

## **13. Collaborations**

### **13.1. Collaborations under Uganda Technology and Management University, 2012-2015**

These are some of the collaborations/ partnerships during the period Prof. Baryamureeba served as Vice Chancellor of Uganda Technology And Management University (UTAMU).

- a) UTAMU and National Water and Sewerage Corporation, 2012. UTAMU signed an MOU with National Water and Sewerage Corporation (NWSC) for sharing resource persons, conducting joint research, jointly designing tailor-made short courses targeting leaders in the corporate world, and hiring out of the NWSC International Resource Centre (NWSC-IRC) located at Plot M11, Old Port Bell Road, Bugolobi, Kampala. NWSC-IRC is a state of art facility with video conferencing, conference rooms, boardrooms, lecture rooms, computer labs, office space, sufficient parking space, and canteen among others.
- b) UTAMU and TEAMS Institute of Business Management now TEAMS University, 2012. UTAMU signed a memorandum of understanding with Teams Institute of Business Management (TIBM) to undertake joint programmes aimed at further strengthening their institutions and building capacities. This was aimed at consolidating the Parties as leading Institutions in Business, Technology and Management.
- c) UTAMU and Mbarara University of Science & Technology, 2013. Mbarara University of Science and Technology (MUST) and Uganda Technology & Management University (UTAMU) in August 2013, signed a Memorandum of Understanding to collaborate in training of PhD students in areas of Science, Technology and Management. The two universities agreed to pool their human resources especially at PhD level in a joint institution capacity building programme to create a joint centre of excellence in East Africa. MUST is the degree awarding institution in the collaboration. In November 2013, 78 pioneer PhD students were admitted to MUST under this collaboration. Since there have been additional intakes in August of every year.
- d) UTAMU and Amity University Online, 2013. Amity University Online, in collaboration with UTAMU is running online programmes in the Computing and Business disciplines. The Masters programmes are conducted online while the Bachelors programmes include an optional face-to-face weekly component. All students are expected to have laptops and the UTAMU

offers subsidized laptops to registered students. However, students admitted under the Amity-UTAMU collaboration are also allowed to access the state of the art student facilities at UTAMU.

- e) UTAMU and Uganda Christian University, 2013. Uganda Christian University (UCU) together with UTAMU, in November 2013, signed a memorandum of understanding to undertake joint post graduate programmes. With UCU maintaining its position as the degree awarding institution, the two institutions agreed to work together to address the gaps at post graduate level in Uganda and beyond. The initial programmes to be offered under the UCU-UTAMU joint post graduate collaboration include: Executive Master of Business Administration, Master of Arts in Public Administration and Management, Master of Arts in Development Studies and Master of Information Technology.
- f) Collaboration: Human Sciences Research Council, University of Limpopo, Mbarara University of Science & Technology and UTAMU, 2013. Human Sciences Research Council (HSRC), University of Limpopo of South Africa, Mbarara University of Science and Technology (MUST) and Uganda Technology and Management University (UTAMU) signed a memorandum of understanding on 20<sup>th</sup> November 2013 to harness research and development on the African continent more broadly particularly through the already existing MUST-UTAMU PhD programme. The collaborative activities include:
- Sharing where appropriate, in order to advance cooperation in global and local knowledge and experience;
  - Designing and delivery of jointly determined learning programs and/or knowledge sharing programs offered face to face or through distance learning;
  - Designing and delivery of graduate level research methodology and effective supervision for graduate students courses;
  - Designing research projects within the respective areas critical for national and regional development;
  - Participation by staff of the Parties in the delivery of such programs;
  - Evaluation of jointly delivered programs;
  - Jointly mount PhD programmes in each of the partnering Institutions under the supervision of the faculty from each of the respective disciplines;
  - Exchange staff as visiting scholars, adjunct professors and supervisors for graduate students amongst the partnering institutions as part of the capacity building initiatives.
- g) UTAMU and Tanzania Public Service College Partnership (TPSC), 2013. Uganda Technology and Management University (UTAMU) and the Tanzania Public Service College (TPSC) signed a memorandum of understanding on 26<sup>th</sup> August 2013 for collaboration in training, research, and consultancy in areas of mutual interest and expertise. The aim of the collaboration is to enhance the intellectual life and cultural development at both institutions and will contribute to increased regional cooperation. Under the collaboration, the two institutions agreed to:
- Promote and implement joint trainings, research and consultancies;

- Invite each other's staff to participate in collaborative activities like joint training, consultancy, supervision of students, joint research projects, organization of conferences and seminars or joint publications; and
  - Collaborate on the development of opportunities for courses, student exchange and other activities as mutually agreed upon in writing between the parties prior to commencement of such an activity.
- h) UTAMU and Norway Registers Development As (NRD), 2013. Uganda Technology and Management University entered into partnership with Norway Registers Development AS (NRD) in a bid to address challenges of sustainable development in the East African Region. This was agreed upon on 29th October 2013 when the two institutions signed a memorandum of understanding to work together to support economic reforms in the region by promoting strategic ICT investment and contributing evidence-based research and policy advice. The MOU particularly emphasized the potential of information and communication technologies or e-governance to decrease red tape, increase transparency and improve public service delivery. It also pointed out areas of special interest in the partnership as: investment, industry policy, business environment improvement, public procurement, impact assessment and learning by doing.
- i) UTAMU and National Union for The Disabled Persons in Uganda (NUDIPU), 2013. Uganda Technology and Management University (UTAMU) and National Union for Disabled Persons in Uganda (NUDIPU) signed a memorandum of understanding (MOU) to deliver specialized training programmes to persons with disabilities in Uganda on 4th November 2013. In the MOU, both parties agreed to collaborate in areas of training, research, and development, joint community outreach projects and knowledge exchange in order to build skills and capacity among persons with disabilities like the blind, deaf, the physically challenged among others. The partnership with NUDIPU is a significant compliment to UTAMU's mission of providing global quality education, research and innovation critical to economic and human development.
- j) UTAMU and CYBEROAM Technologies Pvt Ltd, 2013. Uganda Technology and Management University (UTAMU) and Cyberoam Technologies Pvt Ltd (CYBEROAM) signed a memorandum of understanding in December 2013 to partner and collaborate in the areas of but not limited to; training and certification, research and development, joint community outreach projects and knowledge exchange in the discipline of computer networks and network security. The collaboration shall take into consideration the specific and general needs of both parties. The plan includes three (3) components;
- Interventions that shall target training and skills testing in relation in the discipline of computer networks and network security (Seminars, workshops and faculty training);
  - Interventions that shall target the development and implementation of appropriate and suitable solutions in relation to computer and network security;



- Interventions that shall enrich the communities that are in need of the services offered by members of Cyberoam and UTAMU.
- k) UTAMU and Uganda Technicians & Information Technology Association (UTITA), 2013. Juwa Kali work force has organized themselves into an association called the Uganda Technicians and Information Technology Association Limited (UTITA). The members of UTITA install, repair and maintain electrical appliances, electronic and power tools, IT related appliances, vehicles, furniture, glassware and all kinds of fabrications. While these people are technically skilled in various vocations (street smart), they lack soft skills in business and career development (book smart). It is the lack of business skills that has been limiting the transformation of home-grown informal industries to large formal industries as it has happened in India and China. UTITA and UTAMU signed a memorandum of Understanding to work together in training and certification, applications development, knowledge transfer, internships, community outreach projects as well as in research and manufacturing of innovative solutions in the areas of expertise.
  - l) HRD AND UTAMU, 2013. The HRD Group Ltd, which is a training organization, founded in 1987 based in Nottingham, England and Uganda Technology and Management University (UTAMU) signed an MOU to deliver short course training in different areas of interest through innovative technologies. Some of the short courses are appearing for the first time in Uganda and will go a long way to change the business environment in Uganda. The short courses are specially designed and packaged to present those skills that are not usually taught to you in your degree but require them for effective management of self and your work environment. Among the short courses we have those related to management, human resource, organizational behavior, leadership, banking, accounting, marketing to mention a few. All these short courses are offered through the HRD state of art E-Learning System facilitated by UTAMU's local technical expertise.
  - m) UTAMU and Shenyang Aerospace University, China, 2014. International Education College, Shenyang Aerospace University (SAU) in China together with Uganda Technology and Management University (UTAMU) on 15th January 2014, signed a memorandum of understanding to undertake knowledge exchange programmes. The two institutions agreed to work together to exchange staff from either University, undertake joint research projects, offer scholarships programs, as well as enroll students for internship from either UTAMU or SAU. The initial programmes to be offered under the SAU-UTAMU partnership include: Computer Science, Information Systems, Information Technology, Networking and all computer related courses.
  - n) UTAMU and Cisco Systems Inc., 2014. Cisco Systems Inc. accredited UTAMU to Deliver Cisco Academy Programmes. UTAMU is offering a networking skills

training programme in collaboration with Cisco Systems Inc. a worldwide leader in networking and Internet Technologies that transforms how people connect, communicate, and collaborate. The courses are delivered in partnership with Cisco Networking Academy, a global education program with over a million students enrolled in over 10,000 training centers worldwide. The programme helps students prepare for ICT careers such as Cyber Security, Digital forensics and Network administration, IT entrepreneurship, IT technical support, and Health Informatics among others. In addition, the programme offers opportunities to students to advance their education to degree level in engineering, computer science, Business Computing and related fields, through the diploma entry level requirements.

- o) UTAMU and Huawei Certification Programmes, 2014. UTAMU partnered with African Advanced Level Telecommunication Institute (AFRALTI) [www.afralti.org](http://www.afralti.org) a Premier Partner of Huawei Authorized Networking Academy (HANA) in Africa to run HANA programmes under the theme: Accelerating architects of the future Internet. The courses to be delivered include; the Huawei Certified Datacom Associates (HCDA) and Huawei Certified Datacom Professional (HCDP). The courses are delivered in partnership with AFRALTI Pan-African human capacity institution for telecommunication, with over 30 years of experience in implementing multi-stakeholder collaboration and ICT human capacity development. Presently, there are only two HANA training Centers in Africa and the launch and HANA Academy at UTAMU brings that number to three in Africa making UTAMU the only center in the country skilling man power to support the growing Huawei Technology footprint in Uganda.
- p) Saarland University (CEVAL) – UTAMU Joint Master of Monitoring and Evaluation, 2014. In 2014, the German Development Cooperation-GIZ entered into agreement with UTAMU and Saarland University to run a joint postgraduate certificate course based on courses on the Masters in Monitoring and Evaluation. Support received from the German Development Cooperation-GIZ has enabled the start of the Blended Postgraduate Certificate in Evaluation that is offered in collaboration with Center for Evaluation, Saarland University and UTAMU.
- q) PPDA-UTAMU Collaboration, 2014. Uganda Technology And Management University on 8th December 2014 signed a memorandum of understanding with Public Procurement and Disposal of Public Assets Authority (PPDA) under which UTAMU's final year computing students will develop IT applications for PPDA needs, for their end of course projects.
- r) UTAMU AND Civil Service College Uganda (CSCU), 2014. The purpose of this Memorandum of Understanding (MoU) was to establish a collaborative relationship between CSCU and UTAMU to support their mutual interests in

the field of education, training, research and consultancy. The two parties shall collaborate in the following broad areas:

- Promoting and implementing joint training programmes, research and consultancy assignments;
- Inviting each other's staff to participate in the collaborative activities like joint supervision, joint research projects, organization of conferences and seminars, or joint publications; and
- Collaborating on the development of opportunities for courses and other activities as mutually agreed upon in writing between the two parties prior to commencement of such activity.

- s) UTAMU and Jamhuriya University of Science & Technology (JUST), 2014. This Memorandum of Understanding (MOU) establishes a partnership between Uganda Technology And Management University (UTAMU), a leading, private university based in East Africa and Jamhuriya University of Science & Technology (JUST) which is accredited by the Ministry of Education, Culture and Higher Education of the Federal Republic of Somalia. JUST is registered as a private, non-profit higher education institution with the mandate to create and disseminate knowledge through relevant research work and quality academic standards. Together, both Parties enter into this Memorandum of Understanding to mutually develop and deliver technical training courses in order to promote the educational development of various undergraduate and postgraduate studies, and research.
- t) UTAMU and University of Johannesburg, 2015. UTAMU through the School of of Business and Management entered into partnership with the Department of Public Management and Governance, Faculty of Management of the University of Johannesburg. The partnership would explore starting joint degree(s), and co-publishing among others. UJ is ranked 4th on the QS international rating and one of the university goals is to promote Pan Africanism and partnerships with institutions such as UTAMU. There were joint publications between the faculty of UTAMU and UJ for the 2015 journal. The MOU was signed on 6th March 2015 when the team involving Prof Christelle Auriacombe, Prof Shikha Vyas-Doorgapersad and Dr. Dominique Uwizeyimana officially visited UTAMU.
- u) UNESCO – UNICEF – NUDIPU - UTAMU Collaboration, 2015-2017. UTAMU in partnership with UNESCO, UNICEF and National Union of Disabled Persons in Uganda (NUDIPU) are spearheading a two (2) year project effective January 2015 on promoting the rights of Persons with Disabilities' access to inclusive education and information. The objectives of the project are; To

create an enabling environment for the use of Assistive Technology to ensure Inclusive Education and Access to Information and to build the capacity of teachers, information professionals & publishing companies to develop, reproduce and distribute accessible educational materials.

### **13.2. Collaborations at Makerere University**

Professor Baryamureeba initiated / signed several MOUs in his capacity as Vice Chancellor. Every month he signed over 5 MoUs. These are reflected in the six (6) months progress reports of the Vice Chancellor. Some of them include:

- On 11<sup>th</sup> January 2010, Makerere University and Uganda Telecom signed the Memorandum of Understanding in which the telecommunication giant would provide a range of communication services to run the university's learning centers (Up country campuses). In the partnership, Uganda Telecom would provide all the infrastructure and technical support needed to run the study centers, while Makerere University would buy Internet bandwidth and leased lines from the communication provider at a rate to be agreed upon for the duration of the partnership. Uganda Telecom would initially provide 100 computers and 100 UPS systems and grow this to 2000 sets by the fifth year of the partnership.
- On Tuesday 21<sup>st</sup> June 2011, Makerere University and University of Hertfordshire signed a 5-year academic support agreement. Under this programme, the students of Makerere University who would complete the 2<sup>nd</sup> year of Bachelor of Science in Computer Science or Bachelor of Information Technology would enroll online for 3<sup>rd</sup> year at University of Hertfordshire and get awarded the Bachelor of Science in Computer Science or Bachelor of Information Technology of University of Hertfordshire respectively. The students interested in getting double degree were to enroll concurrently at both Makerere University and University of Hertfordshire and get a double degree.
- Makerere University and Xiangtan University of the People's Republic of China signed an agreement of cooperation on 25<sup>th</sup> October 2010 to enhance educational and research in academic fields of interest between Uganda and China. They agreed to: Exchange of faculty members and researchers; Exchange of students; Conducting joint research; Holding lectures and symposia; Exchange of information and academic publications; Work placements in China; and Administrative staff exchange to promote greater knowledge and understanding of the operations in each University.
- In August 2010, Makerere University and Orange (U) Ltd signed a Landmark Memorandum of Understanding. The parties agreed to partner and collaborate in the areas of but not limited to; ICT Application Development, Research and Development, Joint Community Outreach Projects & Knowledge Exchange.

As Dean of the Faculty of Computing and IT, he also forged meaningful collaborations and notable among them include:

- Makerere University Faculty of Computing and IT and University of Cambridge Computer Laboratory, April 2008 to November 2010. Professor Baryamureeba worked with Professor Andy Hopper CBE FRS FREng, Head of Department, and Professor of Computer Technology to develop the "Computing for the Future of the Planet" strategy at University of Cambridge Computer Lab. The research areas of focus were networking, computer systems, security, and more generally "Computing for the Future of the Planet".
- Makerere University Faculty of Computing and IT, University of Groningen, Radboud University and Eindhoven University of Technology, June 2004 to May 2011. The collaboration was anchored around joint research, graduate training and expert support to public Universities in Uganda. The Netherlands Government through Nuffic supported the collaboration.
- Makerere University-London South Bank University (MAK-LSBU) Collaboration. In 2005, Makerere University and London South Bank signed a landmark collaboration agreement under which both Universities run joint degree programmes (M.Sc. in Internet and database systems, M.Sc. in Information systems management), joint distant PhD programme in Computing, Joint research and collaborate in quality assurance enhancement. The students on the master's programmes spent the 1<sup>st</sup> semester at Makerere University where they paid local fees and then proceeded to LSBU for the 2<sup>nd</sup> semester and a dissertation and thereafter obtain LSBU degree in collaboration with MAK. This arrangement made UK degrees affordable to the Ugandan community.
- Makerere University-University of Bergen (MAK-UiB) Collaboration. Under this collaboration, he was able to establish a comprehensive collaboration programme between the School of Computing and IT (formerly Faculty of Computing and IT) at MAK and the Department of Informatics at UiB in areas of student exchange, staff exchange and research collaboration.
- Public Universities in Uganda Network on ICT for Sustainable Development, 2009--2012. A sub-association focusing on public universities under the general umbrella of Uganda National Association of Computing and Internet Technologies was created to fast track computing and ICT development at public universities. He coordinated and managed this programme on behalf of the five Vice-chancellors' of the five public Universities. This led to drastic improvement in ICT facilities, teaching staff and teaching materials at the five public universities.
- Network of East African Universities in the area of Computing and Internet Technologies, 2005-2012. He spearheaded the formation of a network at the East African level in the area of computing to be funded by development partners. This is aimed at maximizing the sharing of resources within the East African community and enhances regional development through

integration of ICT in all functions of government to bring about socio-economic development.

#### **14. Referees**

- 1) Professor Mondo Kagonyera, Former Chancellor of Makerere University; Chancellor of Kabale University; Mobile No. +256772734546/+256703435696, mondokagonyera@yahoo.com
- 2) Professor J.H. Pen-Mogi Nyeko, Former Vice-Chancellor of Gulu University, Former Chairperson of National Council for Higher Education (NCHE), pnyeko@parliament.go.ug, +256772586008
- 3) Professor Frederick IB Kayanja, Former Vice Chancellor of Mbarara University of Science and Technology, Former Chairperson of NCHE, kayanjafib@gmail.com, +256774922680, +256752985570

#### **15. Certification**

I certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.



Venansius Baryamureeba, January 2019