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Opportunities for ICT Research Cooperation in **Makerere**

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Sub-Saharan Africa



Collaboration Opportunities



- ▶ ICT Units and Programs
- ▶ ICT Research Capacity and Activities

Collaboration Opportunities



- ▶ PhD holders
- ▶ Graduate programs (MSc, PhD)
- ▶ Research Activities (Groups)

- ▶ External collaborations, Research results disseminations, Community outreach, etc
- ▶ Capacity building/enhancement initiatives

Universities and ICT units in Uganda



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► Universities

- 27 in total (5 Public)
- 17 Accredited Universities
- Majority are fairly new (< 10 years old)
- Makerere is the oldest, since 1922

► ICT units and offered ICT programs

- 10 offer maximum of BSc
- 3 offer up to MSc, in addition
- 3 offer all degree levels

► Makerere University (MAK)

- 2 ICT based Faculties, 1 School



ICT Research Capacity, MAK



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	ICT based Departments
Faculty of Computing and IT	Computer Science Networks Information Technology Information Systems
Faculty of Technology	Electrical and Electronics Eng.
School of Library and Information Sciences	Information Sciences



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ICT Research Capacity

Faculty of Computing and IT: Programs and
Staffs

Departments	Graduate Programs	Existing (PhD) Capacity	Training (PhD) Capacity
Computer Science	PhD MSc	5	17
Networks	PhD MSc 3	2	5
Information Technology	Options PhD MSc 4	3	7
Information Systems	Options PhD MSc 4	4	16
Total	Options 4 PhD 12 MSc	14	45



ICT Research Capacity

Projected no. of PhD holders



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Departments	Existing	2009/2010	2011/2012
Computer Science	5	7	23
Networks	2	5	7
Information Technology	3	5	10
Information Systems	4	7	20
Total	14	24	59

Research Groups

Faculty of Computing and IT



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Department of Computer Science

1. ICT for Sustainable Development
2. ICT in Education
3. Intelligent System and Pattern Recognition
4. Language Technology for African Languages
5. XML and Web Services

Department of Information Technology

1. E-Learning

Department of Networks

1. Networking Research Group
2. Mobile Computing and Communications

Department of Information Systems

1. ICT in Health
2. Informatics and Visualization
3. Advanced Systems Modelling and Simulations

Faculty of Computing and IT



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International Research Collaborations

University of Groningen, NL
Radboud University, Nijmegen, NL
University Technology of Eindhoven, NL
Computer Laboratory, Cambridge University, UK
London South Bank, UK
Louisiana Tech, US,
University of Cape Town, NMMU, SA, Meraka Institute, SA

Research results dissemination

Number of publications for 2007/2008 = 61 papers (16 journals/45 conferences)
Bi annually International Journal on ICT research (IJCIR)
A yearly International Conference on Computing and ICT research

Private/Public Sector Initiatives

ICT Research Capacity, MAK

Faculty of Technology



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Departments	Graduate Programs	Existin g (PhD) Capacit	Training (PhD) Capacity
Electrical and Electronics Eng.	1 PhD 2 MSc 1 MEng	y 4	-

Research Areas

Signal Processing

Fiber Optic Communications

Wireless and Mobile Communications

ICT Research Capacity, MAK

School of East African Library
and Information Science



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Departments	Graduate Programs	Existing (PhD) Capacity	Training (PhD) Capacity
Information Sciences	1 PhD, 1 MSc	3	2

Relevant Research Areas

Digital Libraries

Content and Information Management

Information Retrieval and Storage



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Thank you!

