



University of Nairobi

College of Biological and Physical Sciences

School of Computing and Informatics

Annual Report

2015

1. Introduction

The School of Computing and Informatics (SCI) was formally established in 1977 as the Institute of Computer Science whose mandate included academic as well as university ICT services. In the year 2002, and in the interest of realizing more focused management and efficiency of the two functions, ICS was split into two units i.e. ICTC and SCI. The School takes its name from the core competencies that it seeks to nurture: *Computing*, to cover the theory and science of computation and *Informatics* to exemplify the practical outworking of this theory in technology and application. The School is a regional leader in research, research and development (R&D) and advanced education in computing. It was the first to offer Bachelors and Postgraduate degrees in Computer Science in the region.

The core mission areas are: Teaching and Learning, Research, Consultancy, Research and Development and Extension Services

Teaching and Learning

Our objective in teaching and learning is to produce high quality, well-rounded, sophisticated graduates who are productive, innovative, and capable of lifelong learning. Our courses are therefore developed and delivered to a high standard of educational and technological competence.

Research

We aim to institute a dynamic programme of aggressive research in our core areas of competence: information systems, distributed systems and artificial intelligence, in line with national and regional priorities.

Consultancy

We seek to engage productively with the public and private sector to solve problems of national or organizational economic importance in order to foster progress in our environment. A number of our academic staff members are involved in consultancy work through UNES.

Research and Development and Extension Services

Based on sound research, relevant teaching, and problem-solving experience gained through consultancy opportunities, we develop training programmes, policies, methodologies and information technology software and hardware products for the local, regional and international market and increase awareness of the same in the community at large.

Thematic Areas

The research mandate of the School of Computing and Informatics is carried out under three research groups in the following thematic areas:

1. ICT for development (ICT4D)
2. Computational Intelligence
3. Distributed Computing

2. Programmes Offered

Programmes	Year Started	Summary
B.Sc. Computer Science, Diploma in Computer Science	1993	This is the School's flagship programme. Continues to attract high caliber students. We admit a second class at Kenya Science campus in addition to the class based in Chiromo campus. Curriculum has been reviewed 4 times. Most recent review in 2010.
M.Sc. Applied Computing	2013	This is an evening programme targeting applicants with Computer Science or Information Technology or any related discipline. Mode of study is coursework and project.
M.Sc. Computational Intelligence	2013	This is an evening programme targeting applicants with first degree in Computer Science or related Engineering, Mathematics or Statistics discipline. Mode of study is coursework and project.
M.Sc. Distributed Computing Technology	2013	This is an evening programme targeting applicants with first degree in in Computer Science or a related discipline (e.g. Engineering, Mathematics and Physics). Mode of study is coursework and project.
M.Sc. Information Technology Management	2013	This is an evening programme targeting applicants with first degree in Computer Science or Information Technology or a related discipline. Mode of study is coursework and project.
Ph.D. Information Systems, Ph. D. Computer Science	2000	These are Ph.D. purely by research. The programmes have produced 15 graduates so far. Currently 40 students are registered.

Undergraduate Enrolment

Year of Study	Number of students								
	Government Sponsored			Privately Sponsored			Totals		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	35	4	39	83	12	95	118	16	134
2	58	10	68	34	4	38	92	14	106
3	21	10	31	18	7	25	39	17	56
4	27	11	38	25	2	27	52	13	65
Total	141	35	176	160	25	185	301	60	361

Postgraduate Enrolment Masters Programmes

Year of study							Number of students						Total
	M.Sc. IT Management			M.Sc. Applied Computing			MSc Computational Intelligence			MSc Distributed Computing Technology			
	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	
1	14	51	65	0	0	0	0	0	0	1	38	39	104
2	18	54	72	5	23	28	1	25	26	10	64	74	200
Total	32	105	137	5	23	28	1	25	26	11	102	113	304

PhD

Level	Male	Female	Total
1	4	1	5
2	27	3	30
3	4	1	5
Total	35	5	40

International Student Component

Reg. Number	Surname	Other Names	Country
P80/50081/2015	Kante	Macire	Mali
P54/73430/2014	Nkurunziza	Ndushabandi Jean Bosco	Rwanda

3. Number of Graduates

DEGREE PROGRAMMES	Female	Male	Total
Diploma in Computer Science	10	27	37
BSc in Computer Science	9	37	46
MSc in Information Systems	3	13	16
MSc in Computer Science	3	4	7
M.Sc. IT Management	2	8	10
MSc Computational Intelligence	1	7	8
MSc Distributed Computing Technology	0	8	8
Ph.D. Information Systems	1	0	1
Ph. D. Computer Science	0	3	3

4. Research Projects

Title	Partners
Research and Pedagogy related Transport Infrastructure Design & Development	Centre for Sustainable Urban Development, Earth Institute , Columbia University
Research Grants Innovative Application of ICTs in addressing water –related impacts of climate change (ICTCCW)	Asian Management & Development Institute (AMDI), VIETNAM
The promise of Fibre-optics Broadband: A pipeline for Economic Development in East Africa	University of Exford; Economic and Social Research Council
Mobile Application development course for Spurring Technological Growth Open Source Moodle e-learning Project	Google /UoN
Liberation Technologies program-design thinking	Stanford University, Nokia
Kenya Centre of Excellence partner Institution for ITES/BPO Industry – Technology Project	Kenya ICT Authority with funding from World Bank, IBM, CAPITA,KeMU consortium
Health Information Systems for Kenya (HI4Kenya)	Ministry of Health; USAIDAfyaInfo; I-Tech
Towards a centre of Excellence for Distributed Computing and Modelling: A UNESCO-HP Brain Gain Project	UNESCO, HP
ICT Supported Distance Education in Institutions of Higher Learning	VLIR
Labour Market analysis to assess possibilities of creating employment opportunities for poor and vulnerable populations... in Ghana, Kenya and South Africa	University of KwaZulu-Natal; Rockefeller Foundation
Catalyzing the new Mobility in cities	Centre for Sustainable Urban Development, Earth Institute, Columbia University ; Rockefeller Foundation
Cloud Strategy	Microsoft
Developing Online Language Technology Resources	Ford Foundation/Nnamdi Azikwe University Nigeria/ Bard College NY,USA
Software Development Subcontracting and Usability Lab	Nokia Research Center (NRC)/SCI
Kenya Innovation Forum	ICT Authority
Liberation Technologies Program-design Thinking	Stanford University/Nokia/SCI
Regional mobile Applications lab	World Bank’s Infodev/UON-Google Education
Research Commercialization	Simon Fraser University/DFAIT (Canadian Government)/SCI
Afyainfo Project	USAID, through Abt Associates.
Nairobi Sizzle-social media user research	Helsinki Institute of information technology(HIT) Alto university, Finland, Nokia and Technoserve Kenya
Digital Matatus	Rockefeller Foundation,Google

Forgaty	University of Washington/UON
Mobile phone-based patient record system	Swedish Institute and Vetenskapsrade
HIV Capacity building (UNITID)	UNITID
Technical Support for MoH	MoH

4. Publications

	Authors	Title of the Paper	Journal
1.	Peter A. Simatwa, Dr. Christopher Chepken	Benchmarking Quality of Experience (QoE) Offered by Mobile Network Operators in Kenya: A User-Centric Approach	International Journal of Emerging Technology and Advanced Engineering
2.	Godfrey Kyalo Makau, Prof. Elijah I Omwenga , Njihia James Muranga	The Critical Technological Factors of E-Government in Kenya	International Journal of Computer Applications
3.	Dr. Tony Omwansa , Isaiah Lule, Prof. Timothy Waema	The Influence of Trust and Risk in Behavioural Intention to Adopt Mobile Financial Services among the Poor	International Journal of e-technology
4	Bernard Wekesa, Evans Miriti , Christopher Moturi	Agent-based Vulnerability Assessment of Government Web Applications	NNGT Int. J. On Internet and Web Applications
5	Vivian Waithira Mungai, Christopher Moturi	Effect of IT Outsourcing on the Performance of Banks in Kenya: Application of the balanced scorecard	IOSR Journal of Business and Management (IOSR-JBM)
6	Dr. Christopher Chepken , Suzane Nabwire	The Possibility of One-Size-Fits-All in ICT4D Design: A Case Study of the Day-Labour Organisations	International Journal of Information Communication Technologies and Human Development (IJICTHD)
	Bonface Ngari Ireri, Prof. Elijah I. Omwenga	Modelling an Institutional Mobile Learning Readiness Analyser	Journal of Education and Practice
7	Christopher A. Moturi , Charles B. Malungu	ICT Infrastructure Sharing Framework for Developing Countries: Case of Mobile Operators in Kenya	International Journal of Applied Information Systems
8	Dr. Andrew M. Kahonge , Joseph M. Muthoni	E-Verification: The Missing Component in E-Recruitment Systems	International Journal of Computer and Information Technology
9	Christopher Moturi , Prester Mbiwa	An Evaluation of the Quality of Management Information Systems used by SACCOs in Kenya	The TQM Journal
10	Christopher Moturi , Prof. Peter M.F. Mbithi	ISO 9001: 2008 Implementation and Impact on the University of Nairobi	The TQM Journal
11	Peter Okech, Nicholas McGuire, William Okello-Odongo	Inherent diversity in replicated architectures	Cornell University Library
12	Abiud Wakhau Mulongo, Elisha T. Opiyo Omulo , William Okello-Odongo	A Hierarchical Multilayer Service Composition Model for Global Virtual Organizations	Computer Science and Information Technology
13	Grace Leah AKINYI, Christopher A. Moturi	Application of IS-Balanced Scorecard in Performance Measurement of e-Government Services in Kenya	American Journal of Information Systems
14	Cyrus Saul, Amemba	Challenges Affecting Public	European Journal of Business and Management

	Pamela, Getuno Nyaboke Anthony Osoro, Nganga Mburu	Procurement Performance Process in Kenya	
15	Hillary Thadias Nyang'anga, William O. Okelo, Fred I. Mugivane, Demesi J. Mande, George T. Opande	Farmer's Requirements in an artificial Intelligent System for Diagnosis of Maize Diseases in Kenya	IOSR Journal of Agriculture and Veterinary Science
16	Hillary Thadias Nyang'anga, William O. Okelo, Fred I. Mugivane, Demesi J. Mande, George T. Opande	Extension Officers' Requirements in an Artificial Intelligent system for Diagnosis of Maize Diseases in Kenya	IOSR Journal of Agriculture and Veterinary Science
17	Christopher Moturi, Victor Wahinya Kahonge	Association Analysis of Pharmaceutical Imports in Kenya	International Journal of Computer Applications Technology and Research
18	Admire Mhlaba, Muthoni Masinde	A Hardware based Model for an Asset Monitoring and Tracking System: Case of Laptops	IEEE
19	Jacqueline Klopp, Sarah Williams, Peter Waiganjo, Daniel Orwa, Adam White	Leveraging Cellphones for Wayfinding and Journey Planning in Semi-formal Bus Systems: Lessons from Digital Matatus in Nairobi	Book Chapter
20	Thomas Omweri, Andrew M. Kahonge	Using a Mobile Based Web Service to Search for Missing People – A Case study of Kenya	International Journal of Computer Applications Technology and Research
21	Sarah Williams, Adam White, Peter Waiganjo, Daniel Orwa, Jacqueline Klopp,	The Digital Matatu project: Using cell phones to create an open source data for Nairobi's semi-formal bus system.	Journal of Transport Geography
22	Joseph Mutuku Ngemu, Elisha Opiyo Omulo, William Okelo Odongo, Bernard Manderick	Student Retention Prediction in Higher Learning Institutions: The Machakos University College Case	International Journal of Computer and Information Technology

PhD Theses

Name	Title	Supervisors
Dr. Evans Miriti	Integrating Policy transfer, policy reuse and experience reply in speeding up reinforcement of the obstacle avoidance task.	Prof. Peter Wagacha
Dr. Bonface Ngari Ileri	Modelling an instructional design and delivery model for mobile learning	Prof. Elijah Omwenga
Dr. Josephine Wangari Karuri	Determinants of acceptance and use of routine HIS in developing countries	Prof. Peter Wagacha Dr. Daniel Orwa
Dr. Elizaphan Muuro Maina	Intelligent Support in Group Work in Online Collaborative Learning Environment	Prof. Peter Wagacha Dr. Robert Oboko

MSc Projects

	Reg. No.	Surname	Other Names	Gender	Title	Supervisor
1.	P54/65722/2013	ORONJE	Samuel Lubanga	M	Implementation Framework for Information Systems Policy for Fraud Control in Credit Unions	C. Moturi
	P54/66051/2013	WANJIKU	Pauline Wambui	F	Adoption of Cloud Computing in Medium and High Tech Industries in Kenya	C. Moturi
3.	P54/65232/2013	NGUGI	Moses Njau	M	Information and communication Technology Talent Management Alignment with Outsourcing: Case of Kenya Power	C. Moturi
4	P54/66069/2013	MALUNGU	Charles	M	ICT Infrastructure Sharing Framework for Mobile Operators in Kenya	C. Moturi
5	P54/64501/2013	AKINYI	Grace Leah	F	Application of the Balanced Scorecard Framework in Performance Measurement of E-Government Service: Case of Kenya Revenue Authority	C. Moturi
6	P58/73542/2009	RUORO	Simon Wachira	M	A Parallel Corpus Based Translation Using Sentence Similarity	Evans Miriti
7	P52/64696/2013	MUNGAI	Samuel Karuga	M	An Embedded Framework for Integrating Speed, Alcohol and Weight Monitoring in a Public Service Vehicle	Dr. Lawrence Muchemi
8	P54/65108/2013	MUCHIRA	Kennedy Karanja	M	IT Risk Management in E-Governance: Case for the Cargo Clearance Process in Kenya	C. Moturi
9.	P54/65119/2013	MUNGAI	Vivian Waitira	F	Effect of Information Technology Outsourcing on the Performance of Banks in Kenya: Application of the Balanced Scorecard	C. Moturi
10	P58/63483/2011	MUSEE	Nicholas Mwaniki	M	An Academic Certification Verification System Based on Cloud Computing Environment	Prof. Okelo-Odongo
11	P52/65294/2013	KIPTANUI	Dennis Too	M	A Social Media Sentiment Analysis Model to Support Marketing Intelligence in Kenya	Dr. Lawrence Muchemi
12	P52/65641/2013	OBONYO	Ishmael Nyunya	M	Open Source Implementation of Business Intelligence System for Kenyan Universities: A Case of the Technical University of Kenya	Dr. Elisha Opiyo
13	P56/61564/2013	BETT	Beatrice Jemutai	F	A Framework for Harnessing ICT Resources use to Improve the Academic Performance of Secondary School Students in Kiambu Sub-County	Dr. Elisha Opiyo
14	P53/66273/2013	ARAKA	Eric	M	An SOA Framework for Web-Based E-Learning Systems: A Case of Adult Learners	Dr. Lawrence Muchemi
15	P56/66952/2011	MAXWELL	Charles Odira	M	Prediction of River Discharge Using Neural Networks	Dr. Elisha Abade
16	P56/61482/2013	WANGUTU SI	Gerald Mutoru Nyamaiko	M	An Exploration of how BYOD (Bring Your Device) user Behaviour Impacts on an Organization's Information Security: A Case Study of Madison Insurance Company Kenya	Samuel Ruhiu

17	P58/75880/2012	GITHNJI	Christopher D. N.	M	Traffic Simulation and Mapping of Matatu Routes in Eldoret City	Prof. Wagacha
18	P58/63741/2011	NGUGI	Anthony Mwangi	M	Agent-Based Security Information Monitor	
19	P58/63831/2011	ONYANGO	Brian Otieno	M	Improving Accuracy in Arrival time Prediction Using Support Vector Regression (A Case study of Trucks Passing Along Uhuru Highway Nairobi)	Dr. Lawrence Muchemi
20	P58/75453/2012	NGEA	Munyiva Mbthi	F	Automated Customer Support with Conversational Agents Employing Text Mining	Dr. Agnes Wausi
21	P56/61521/2013	OTIENO	Erick Ochieng	M	Adoption of Mobile Payments in Kenyan Businesses: A Case Study of Small and Medium Enterprises (SME) in Kenya	Dr. Andrew Kahonge
22	P56/61585/2013	KING'OO	Peter Kyalo	M	SMS Based System to Provide First Aid Information in Kenya	Dr. Evans Miriti
23.	P56/62363/2013	MUTUKU	Timothy Muoka	M	An Evaluation Framework for the use of ICT Technologies to Teach in Kenyan Universities: The Case of Multimedia University of Kenya	Dr. Agnes Wausi
24.	P54/65111/2013	KINYUA	Afred Wanjau	M	Design Reality Gap Framework for Post Implementation Evaluation of the National ICT Policy	Dr. Agnes Wausi
25.	P53/65162/2013	NYAIRO	Evanson	M	Prototyping Integrated Revenue Collection System for County Governments in Kenya: Case of Nairobi City Council	Dr. Elisha Abade
26.	P53/64953/2013	OMWERI	Thomas M.	M	Using a Mobile Based Communication System to Find Missing People	Dr. Andrew Kahonge
27.	P52/69253/2013	LELENGUI YA	Job Kuntai	M	An Intelligent Model for Detecting Fraud in the Non Technical Loss of Commercial Power: Case of Kenya Power-Ruiru Area	Dr. Elisha Opiyo
28.	P52/65120/2013	NGEMU	Joseph Mutuku	M	Business Intelligence Student Retention System for Higher Learning Institutions (A Case for Machakos University College)	Dr. Elisha Opiyo
29.	P53/65240/2013	SABUL	Amon Kiptoo	M	A Comparison Between Corba and Mobile Agents in Integrated Payment Channels	Dr. Andrew Kahonge
30	P53/65118/2013	MUTHONI	Joseph Mathenge	M	E-Verification: A Case of Academic Testimonials	Dr. Andrew Kahonge
31	P56/61609/2013	YEGO	Paul Kipchirchir	M	Data sharing Among Selected Government Institutions in Kenya	Dr. Evans Miriti
32	P53/65839/2013	NGEREKI	Anthony Mbugua	M	Protecting Mobile Agents From Malicious Hosts in a Distributed Network	Dr. Andrew Kahonge
33	P54/65163/2013	ROP	Tony Kiprotich	M	A Framework for Adoption of Cloud Computing in Non-Governmental Organization in Nairobi-Kenya	Dr. Elisah Abade
34	P56/72361/2011	MWITA	Simion Maroa	M	Factors Affecting Information Systems Security Effectiveness in University of Nairobi	Dr. Evans Miriti

35	P56/60140/2010	WAMBUA	Winfred N.	M	An Implementation Model for M-payment Adoption: A Case of Lipa Na Mpesa by the Mitumba Traders in Gikomba Market	Dr. Chepken
36	P56/61594/2013	CHONGWO	Kennedy Kipkemboi	M	Wireless Product-Broadcast System	Prof. Elijah Omwenga
37	P56/72528/2012	OTIENO	Eric Omondi	M	Investigating Factors Affecting Utilization of Computer Application systems in Service Sector Based on Technological Acceptance Model: A Cse Study of Kenya Airways Limited	Dr. Elisha Abade
38.	P58/76656/2012	LUVAHA	David Atula	M	Implementation of RFID Technology to Improve Efficiency of Serving Customers: A Kenya Supermarket Case Study	Eric Ayienga
39	P53/65356/2013	KABUE	Patrick	M	Comparative Analysis of A nomaly Detection Algorithms	Dr. Elisha Abade
40	P54/65341/2013	NDUNGU	Richard Mwangi	M	Information security awareness Measuring Model – A Case Study of Nairobi Stock Exchange Systems	Dr. Evans Miriti
41	P58/76170/2012	MUSWII	Wycliffe Mutangili	M	Enhancing Revenue Collection Through Integrated GIS Database System with Property (land) Classification Using an Algorithm	Dr. Agnes Wausi
42.	P56/7885/2006	KAGUNYA	Esther Wairimu	F	Child Protection, Surveillance and Decision Support Management Information System (CPSMIS) for Nairobi Children's Home	Dr. C. Chepken
43	P56/p/7347/2005	OWINO	Patrick Oduor	M	A Framework for Adoption of E-Agricultural Information Services by Enterpreneural Youths in Kiambu: A Case of Kikuyu Sub-County	Dr. Elisha Opiyo
44	P53/65229/2013	NGWAWA	Edwin Ouma	M	Near real Time Machine Signature Detection, Generation and Collection	Dr. Elisha Abade
45	P56/p/8184/2001	ONGIGE	Paul Nyamweya	M	Cloud Computing Adoption in Financial Regulating Bodies Under National Treasury in Kenya: a Technology-Organization – Environment Approach	Dr. Elisha Abade
46.	P56/61643/2013	KIZITO	Thomas	M	An E-Corruption Control Framework for the Kenya Public Sector	Dr. Chepken
47.	P56/71394/2008	KARIUKI	Joel Gachanja	M	Demand-Side Factors Influencing the Adoption of Broadband for Small Business in Kenya: A Case Study of Cybercafe's in Nairobi City	Dr. Evans Miriti
48.	P56/71760/2008	MURUNGI	Mugambi Frankline	M	A Framework for Implementing Healthcare Data Warehouses in Kenya: A Case of Public Hospitals	C. Moturi

49	P58/76338/2012	GIKARU	Judy W.	F	Predicting Recidivism Among Inmates population Using Artificial Intelligent (AI) Techniques: A Case Study of Kenya Prisons Department	Dr. Chepken
50	P52/66411/2013	KABURU	Morris Mwirigi	M	Use of Image Processing in Drowsiness Detection Among Drivers to Reduce Road Traffic Accidents in Kenya	Dr. Evans Miriti
51	P58/75750/2012	GATERU	Nicholas Muchai	M	Comparing the Performance of Naive Bayes and Support Vector Machines in Text Classification Submitted	Evans Miriti
52	P54/66048/2013	CHERONO	Winnie	F	An Evaluation Framework for ICT Management Framework Selection in Kenyan Organization	Dr. Agnes Wausi

5. Conferences

Conference Paper Presented

Staff Name	Title of the Paper	Place	Date
Dr. Abade	Smartrevision kit: A KNN-based mobile and web revision toolkit for primary school pupils	IEEE Africon 2015	14 th – 17 th September 2015
Dr. Abade	Mobile phone supported water dispensing system for the "unwatered" population	IEEE Africon 2015	14 th – 17 th September 2015

Conference Attendance

Staff	Conference	Date	Place
Prof. Elijah Omwenga	COMESA Innovation Awards	16 th – 17 th March 2015	Zambia
Dr. Tony Omwansa	Academic Network Cloud Seminar	19 th – 20 th April 2015	Egypt
Prof. Timothy Waema	Xv th World Water Congress	25 th -29 th May	Edinburg, Scotland
Prof. Timothy Waema	15 th African Corporate Governance Conference	14 th -17 th July 2015	South Africa
Prof. Elijah Omwenga	Association for Teacher Education Europe (ATEE) 4 th Annual Conference	23 rd – 27 th August 2015	Johanesburg, South Africa
Prof. Timothy Waema	Communication Policy Research South 2015 Conference	23 rd – 29 th August 2015	Yuan Ze University, Taiwan
Prof. Elijah Omwenga	COVIDSET, Conference	3 rd – 7 th August, 2015	Nsukka, Nigeria
Dr. Omwansa	DLD Tel AVIV Innovation Festival	5 th – 12 th September 2015	Israel
Dr. Elisha Abade	IEE Africon 2015 Conference	14 th – 17 th September 2015	Ethiopia
Dr. Robert Oboko	Second E-Learning Africa Workshop	25 th – 18 th September 2015	Dar es salam, Tanzania

6. Links/Collaboration/Partnership

Title	Partners	Staff Involved
Nairobi Sizzle-social media user	Helnski Institute of information	Prof. Waiganjo/Dr. Orwa

	research	technology(HIT) Alto university, Finland, Nokia and Technoserve Kenya	
	Mobile Application Cevelopment course for Spurring Technological Growth Open Source Moodle e-learning Project	Google /UoN	Dr. Mburu/Prof.Okelo-Odongo
	MIT's-Africa Internet Technology Initiative (AITI) Summer Programme	UON/MIT	Prof..Waiganjo/ Dr.Mburu
	Software Development Subcontracting and Usability Lab	Nokia Research Center (NRC)/SCI	Prof.Waiganjo/Dr.Orwa/Dr . Oboko/Prof.Okelo-Odongo
	Diasporas and Distributed Computing	UNESCO, University of Nairobi/Hewlett Packard	Prof. Okelo Odongo/Dr.Opiyo/Ayienga , Ms. Ronge
	Research Commercialization	Simon Fraser University/DFAIT (Canadian Government)/SCI	Prof. Waema/ Dr. Muchemi
	Liberation Technologies Program-design Thinking	Stanford University/Nokia/SCI	Prof. Waiganjo/Dr.Orwa
	Regional mobile Applications lab	World Bank's Infodev/UON-Google Education	Prof. Okelo-Odongo/Prof. Waiganjo/Dr.Orwa
	Research Commercialization	Simon Fraser University	Prof. Waema
	Utilities for the Blind and visually Impaired persons	ICT Board/Kenya society for the Blind	Prof.waiganjo
	Real time, Farmer-Centric M&E Platform	NSCT	Dr. Nganga/ Ms.Wangunyuu
	Developing Online Language Technology Resources	Ford Foundation/Nnamdi Azikwe University Nigeria/ Bard College NY,USA	Dr. Ng'ang'a/Prof. Waiganjo/Prof. Omwenga (On-going)
	ANLoc –African Network for Localization	ZuZa Software Foundation	Prof.Waiganjo/Dr. Nganga
	ICT Supported Distance Education in Institutions of Higher Learning	VLIR Belgium	Prof. Omwenga
	Sizzle Virtual Center of Excellence	Aalto University/Helsinki Institute of Information Technology/UON/Beijing University/EIT labs Helsinki	Prof.. Wagacha

7. Consultancies

Title	Client	Staff Involved
E-readiness assessment and accession for 50 Universities in East African Region	50 Universities in East African Region	Prof. Waema
Grants Funds Management Strategic Plan	University Management & Stakeholders	Prof. Waema
Kenya Centre for Excellence Partner Institution for ITES/BPO	ICT Board	Prof. Okelo-Odongo/Dr. Wausi/Dr. Nganga
Development of Curriculum	Directorate of e-Government	Prof. Okelo-Odongo /Dr. Oboko

8. C4DLab Activities

Category	Activity name	Description	Date	Reference
Training	Sas Data analytics course	<p>A one week training targeted to individuals who needed a solid foundation for programming in SAS in a condensed time-frame and could learn at an accelerated pace. The training is a prerequisite to many other SAS courses; it serves as an entry point to learning sophisticated SAS programming.</p> <p>The training equipped the learners with skills in SAS DATA step programming techniques for processing, controlling, and manipulating SAS data sets.</p>	12 th to 16 th January 2015	http://www.c4dlab.ac.ke/2015/01/to-kick-off-sas-programming-training/
	Cybersecurity training	A 3 day training to equip trainees with good knowledge and understanding of the wide range of subject areas that make up information security and its management. Aspects. The training included technical risks and corresponding management controls, risk and its management, security standards, people and physical security as well as business continuity	28 th -30 th October 2015	http://www.c4dlab.ac.ke/training/cybersecurity/
	Cisco networking training	A four months training to give trainees a hand on learning experience on CISCO networking fundamentals and tools. The	October 2015- January	http://www.c4dlab.ac.ke/training/cisco/

		course is meant to prepare learners for CISCO certification exams.	2016	
Workshop	MIT Fellowship talk	A talk on the Legatum Fellowship, the entrepreneurship eco-system, and postgraduate programs on offer at the Massachusetts Institute of Technology , by Mr. KwadwoPoku.	2 nd February 2015	http://www.c4dlab.ac.ke/2015/02/mit-fellowship-talk-happens-here/
	Qualitative research workshop	A workshop that aimed to educate attendants on the importance of qualitative research methodology, its benefits and how it's conducted. The workshop was facilitated by rofessor Matilda Dahl of the Uppsala University's Business Studies Department in Sweden.	11 th February 2015	http://www.c4dlab.ac.ke/2015/02/research-when-going-the-qualitative-way-can-be-as-valid/
	Launch of the M-Lab measurement	M-LAB is a measurement tool which is hosted by KENET and is designed to provide Kenyan internet users and regulators with reliable information regarding the quality of their broadband services. The tool was launched in collaboration with KENNET.	26 th October 2015	http://www.c4dlab.ac.ke/2015/11/c4dlab-launches-m-lab-for-measuring-broadband-performance-among-isp-networks/
Events	Nairobi innovation week 2015	A one week signature annual event, that brought together partners from government, private sector, development partners and research centers with an aim of providing a platform for show-casing and encouraging innovation over and above networking and sharing knowledge	3 rd August, 2015 – Friday 7 th August, 2015	http://www.innovationweek.co.ke/homepage/
	Admission of startups to AFTIA	After a rigorous selection process, C4DLab has admitted 4 startups to its acceleration program.	9 th November 2015	http://www.c4dlab.ac.ke/2015/12/c4dlab-admits-startups-to-its-aftia-program/
	Launch of the incubation strategy	A start-up Incubation/Acceleration Strategy which, other than spelling out key growth measures, it is mandating stakeholders to achieve key milestones by certain short periods.	7 th March 2015	http://www.c4dlab.ac.ke/2015/03/lab-unveils-startup-strategy-implementation-plan/

PROMOTIONS

<i>Name of staff</i>	<i>Previous Designation</i>	<i>Current Designation</i>
Professor	Information Communication and Service Operators Grade B/C	Network Technologist Grade DEF

9. Human Resource

<i>Designation/Grade</i>	<i>No of Staff</i>
Professor	1
Associate Professor	3
Senior Lecturer	9
Lecturer	7
Tutorial Fellow	3
Graduate Assistants	2
Assistant Registrar	0
Senior Administrative Assistant	1
Admin Assistant	0
Senior Secretary	1
Secretary	1
Technologists	6
Library Assistant	1
Office Assistant	0
Receptionist/Telephone Operator	2
Cleaners	2
Driver	0

MAJOR EVENTS

ground breaking ceremony at the proposed site of the proposed C4D Centre

CORPORATE SOCIAL RESPONSIBILITY

NUCCOMSA students visited a childrens home