



SCHOOL OF BIOLOGICAL SCIENCES (SBS)

COLLEGE OF BIOLOGICAL & PHYSICAL SCIENCES

UNIVERSITY OF NAIROBI

ANNUAL REPORT 2012

Table of contents

Table of contents.....	2
Undergraduate Programmes Offered.....	3
B.Sc. (Biology)	3
Entry Requirements	3
Course Units	3
B.Sc. (Environmental Conservation & Natural Resource Management)	5
Entry Requirements	5
Course Units	5
B.Sc. (Microbiology and Biotechnology)	7
Entry Requirements	7
Course Units	7
Student Enrolment.....	9
Undergraduate Enrolment (2012/2013 Academic year)	9
Postgraduate Enrolment (2012/2013 academic year)	9
International student component	9
Research projects	10
National & International links and collaborations	11
Publications (2012).....	12
Consultancies (Toxicological studies)	13
School Of Biological Sciences – Staff Establishment.....	14
Number of graduands (Bsc., MSc. & PhD.)	17
Conference Proceedings.....	18
Staff attending conferences and other academic fora	19
Papers presented in conferences and other academic fora	20

Introduction

The School of Biological Sciences (SBS) is set in a serene environment at Chiromo Campus, located some 2 km from Nairobi city. It offers training in four well-structured undergraduate degree programs, as well as M.Sc. and Ph.D. programs in over 12 specialty areas of biological science. The school is structured into the following nine thematic areas each with a thematic head: Ethnobiology and Taxonomy; Biological Natural Products; Ecology and Environmental Sciences; Fresh Water and Marine; Genetics and Biotechnology; Insect Science; Microbiology; Physiology and Biochemistry, and Parasitology and Immunology. The School is involved in different types of researches within the biological arena and has links with several local and international institutes. In addition, it offers services to the general public such as consultancies in various areas, identification of plants and animals, and the sale of biological products, such as seedlings, mice, insects, etc.

Undergraduate Programmes Offered

The School offered three undergraduate degree programmes, namely, B.Sc. (Biology), B.Sc. (Microbiology & Biotechnology) and B.Sc. (Environmental Conservation & Natural Resource Management). Two other programmes, B.Ed. (Science) and B.Sc. (Botany or Zoology, or a combination of the two), were offered jointly with the School of Physical Sciences and School of Mathematics under Open and Distance Learning (ODL) or full-time basis to regular and module II students.

B.Sc. (Biology)

This degree programme is designed to give students a broad-based foundation in biology, including molecular biology, with particular emphasis on disciplines such as Parasitology, Entomology, Microbiology and Molecular biology.

Entry Requirements

1. Candidates must have obtained the minimum University and Faculty of Science admission requirements.
2. They must have obtained a minimum grade of C+ in Biology in KCSE.
3. They must have passed with a minimum grade of C in Chemistry or Physical Science in the KSCE.

Course Units

Year 1

- | | |
|------------|--|
| 1. SBT 101 | Survey of Plant Kingdom |
| 2. SBT 102 | Introductory Biochemistry and Genetics |
| 3. SBT 105 | Introductory Microbiology |
| 4. SZL 101 | Invertebrate Zoology |
| 5. SZL 102 | Vertebrate Zoology |

- | | | |
|-----|---------|----------------------------|
| 6. | SZL 103 | Fundamentals of Ecology |
| 7. | SBL 101 | Mathematics for Biologists |
| 8. | SCH 101 | Inorganic Chemistry I |
| 9. | SCH 102 | Organic Chemistry I |
| 10. | CCS 001 | Communication skills |
| 11. | CCS 009 | Elements of Economics |
| 12. | CCS 010 | HIV & Aids |

Year 2

- | | | |
|-----|---------|------------------------------------|
| 1. | SBT 201 | Gymnosperm and Angiosperm Taxonomy |
| 2. | SBT 202 | Principles of Bacteriology |
| 3. | SBT 203 | Plant Ecology |
| 4. | SBT 204 | Plant Structure and Function |
| 5. | SZL 201 | Cell Biology |
| 6. | SZL 202 | Histology |
| 7. | SZL 204 | Basic Immunology |
| 8. | SZE 203 | Animal Ecology and Behavior |
| 9. | SBL 201 | Biomolecules |
| 10. | SBL 202 | Laboratory Techniques |
| 11. | SBL 204 | Proteins and Enzymes |
| 12. | SBL 205 | Basic Metabolism |

Year 3

- | | | |
|-----|---------|---------------------------------------|
| 1. | SBT 301 | General Mycology |
| 2. | SBT 304 | General Genetics |
| 3. | SBT 317 | Food Microbiology |
| 4. | SBT 318 | Laboratory Methods in Microbiology |
| 5. | SBT 319 | Mechanisms in Microbial Pathogenicity |
| 6. | SZL 301 | Evolutionary Biology |
| 7. | SZL 303 | Biostatistics |
| 8. | SZL 304 | Applied Immunology |
| 9. | SZL 311 | Molecular Biology I |
| 10. | SZL 315 | Virology |
| 11. | SZL310 | Introduction to Parasitology |

Electives:

- | | | |
|-----|---------|--|
| 12. | SBT 310 | Microbial Metabolism |
| 13. | SZE 302 | Environmental Health and Ecotoxicology |

Year 4

- | | | |
|----|---------|--------------------------------------|
| 1. | SBT 402 | Microbial Ecology |
| 2. | SBT 405 | Applied Mycology |
| 3. | SBT 413 | Applied Microbiology & Biotechnology |
| 4. | SBT 414 | Research Project |

- | | |
|-------------|--|
| 5. SBT 415 | Molecular Biology II |
| 6. SBT 416 | Micro-organisms as Biological Control Agents |
| 7. SBT 417 | Environmental Microbiology |
| 8. SBT 418 | Marine Microbiology |
| 9. SZL 406 | Medical Protozoology |
| 10. SZL 407 | Medical Helminthology |

Electives

- | | |
|-------------|---|
| 11. SZL 416 | Vector Biology |
| 12. SZE 403 | Conservation in International Trade and Development |

B.Sc. (Environmental Conservation & Natural Resource Management)

This programme specializes in subjects dealing with environment and natural resources conservation and management. It is composed of four core subject areas, namely, biological, physical, and environmental sciences and, policy. This programme produces natural resources and environment professionals with a broad interdisciplinary background that focuses on identifying, protecting, enhancing and managing natural resources and their environment.

Entry Requirements

1. Applicants must have obtained the prescribed minimum University of Nairobi and Faculty of Science general admission requirements.
2. Applicants must have passed with a minimum average of a C+ in KCSE with a minimum of a C+ in Biology or Biological Sciences and a minimum of a C (plain) in other science subjects (Mathematics, Chemistry, Physics or Physical Sciences,) in KCSE or equivalent. Students with a C+ in Geography will have an added advantage. Or, two principal passes at KACE, one of which must be in Biology and the other in any other science subject from the following: Chemistry, Geography, Physics and Mathematics.
3. Holders of a degree, diploma or equivalent in a biological science or related subjects from a University or institution recognized by Senate.

Course Units

Year 1

- | | |
|-------------|--|
| 1. SBT 101 | Survey of the Plant Kingdom |
| 2. SBT 102 | Introductory to Biochemistry and Genetics |
| 3. SBT 103 | Lower Plants |
| 4. SCH 102 | Organic Chemistry 1 |
| 5. SCH 103 | Physical Chemistry 1 |
| 6. SGP 111 | The Natural Environment |
| 7. SGP 114 | Fundamentals of Natural Resources Management |
| 8. SZL 101 | Invertebrate Zoology |
| 9. SZL 102 | Vertebrate Zoology |
| 10. SZL 103 | Fundamentals of Ecology |

Year 2

1. SBE 201 Microbiology
2. SBE 202 Weather and Climate
3. SBE 203 Ecological Laboratory Techniques
4. SBT 201 Gymnosperm and Angiosperm Taxonomy
5. SBT 203 Plant Ecology
6. SBT 204 Plant Structure and Function
7. SCH 203 Physical Chemistry 2
8. SGP 215 Environment and Development in Africa
9. SGP 233 Principles of Environmental Education (EE)
10. SGP 234 Principles of Resources Development and Conservation
11. SZE 202 Introductory Biomathematics and Statistics
12. SZE 203 Animal Ecology and Animal Behaviour
11. SZE 201 Fundamentals of Arthropod Biology
12. SZL 203 Fundamentals of Aquatic Ecology

Year 3

1. SBE 301 East African Rangelands and Man
2. SBE 302 Vegetation Inventory and Analysis
3. SBE 303 Soil Science for Conservation Biology
4. SBE 304 Population Ecology
5. SBE 305 Community Ecology
6. SBE 306 Structure and Function of East African Ecosystems
7. SGP 328 Integrated Water resources Management
8. SGP 334 Principles of Environmental Planning
9. SZE 301 Principles and Practices of Biological Conservation
10. SZE 302 Environmental Health and Ecotoxicology
11. SZE 303 Modelling of Biological Systems
12. SZE 304 Research Methodology and Statistics

Year 4

1. SBE 401 Agroecosystems and Agroecology
2. SBE 402 Hydrology and Watershed Management
3. SBE 403 Field Research Project
4. SBE 404 Forest Management
5. SBT 413 Applied Microbiology and Biotechnology
6. SGP 421 Environmental Pollution
7. SZE 401 Environmental Impact Assessment and Monitoring
8. SZE 402 Environmental Law and Policy
9. SZE 403 Conservation in International Trade and Development
10. SZE 404 Environmental Auditing and Economics
11. SZE 405 Ecosystem Approach to Natural Resource Management

- | | |
|-------------|--|
| 12. SZE 406 | Wildlife Management and Fisheries |
| 13. SGP 431 | Ecotourism and Environmental Management |
| 14. SGP 435 | Transboundary Natural resources Management (TBNRM) |
| 15. SGP 424 | GIS Applications in Environmental Management |

B.Sc. (Microbiology and Biotechnology)

This programme gives the students a good understanding of micro-organisms function and enables them to appreciate the diversity of their roles in nature. It exposes the students to the immense biotechnological potential that microorganisms have and how it is exploited for economic benefit in the modern age. Students who have successfully gone through the programme should be able to find employment opportunities in food and pharmaceutical industries; medical, agricultural and other research institutions; quality control and even diagnostic laboratories among others.

Entry Requirements

Applicants must have obtained the minimum University of Nairobi and Faculty of Science general admission requirements. They must have at least one of the following qualifications:

1. A minimum grade C+ in Biology/Biological Sciences and C (plain) in Chemistry in Kenya Certificate of Secondary Education (KCSE) or its equivalent.
2. KACE with 2 principals in Biology/ Biological Sciences and Chemistry.
3. Ordinary or Higher National Diploma in Biology/Biological Sciences or its equivalent.
4. A degree or its equivalent in biological sciences from a recognized University.

Course Units

Year 1

- | | |
|-------------|--------------------------------------|
| 1. SBT 101 | Survey of the Plant Kingdom |
| 2. SBT 102 | Introductory Biochemistry & Genetics |
| 3. SBT 105 | Introductory Microbiology |
| 4. SZL 101 | Invertebrate Zoology |
| 5. SZL 102 | Vertebrate Zoology |
| 6. SZL 103 | Fundamentals of Ecology |
| 7. SBL 101 | Mathematics for Biologists |
| 8. SCH 101 | Inorganic Chemistry I |
| 9. SCH 102 | Organic Chemistry I |
| 10. CCS 001 | Communication Skills |
| 11. CCS 004 | Law in Society |
| 12. CCS 009 | Elements of Economics |

Year 2

- | | |
|------------|------------------------------------|
| 1. SBT 201 | Gymnosperm and Angiosperm Taxonomy |
| 2. SBT 202 | Principles of Bacteriology |
| 3. SBT 203 | Plant Ecology |

- | | | |
|-----|---------|------------------------------|
| 4. | SBT 204 | Plant Structure & Function |
| 5. | SZL 201 | Cell Biology |
| 6. | SZL 202 | Histology |
| 7. | SZL 204 | Basic Immunology |
| 8. | SZE 203 | Animal Ecology and Behaviour |
| 9. | SBL 201 | Biomolecules |
| 10. | SBL 202 | Laboratory Techniques |
| 11. | SBL 204 | Proteins and Enzymes |
| 12. | SBL 205 | Basic Metabolism |

Year 3

- | | | |
|-----|---------|--|
| 1. | SBT 301 | General Mycology |
| 2. | SBT 304 | General Genetics |
| 3. | SBT 310 | Microbial Metabolism |
| 4. | SBT 317 | Food Microbiology |
| 5. | SBT 318 | Laboratory Methods in Microbiology |
| 6. | SBT 319 | Mechanisms of Microbial Pathogenicity |
| 7. | SZL 303 | Biostatistics |
| 8. | SZL 304 | Applied Immunology |
| 9. | SZL 311 | Molecular Biology I |
| 10. | SZL 315 | Virology |
| 11. | SZL 310 | Introduction to Parasitology |
| 12. | SZE 302 | Environmental Health and Ecotoxicology |

Year 4

- | | | |
|-----|---------|---|
| 1. | SBT 402 | Microbial Ecology |
| 2. | SBT 405 | Applied Mycology |
| 3. | SBT 413 | Applied Microbiology and Biotechnology |
| 4. | SBT 414 | Research Project |
| 5. | SBT 415 | Molecular Biology II |
| 6. | SBT 416 | Microorganisms as Biological Control Agents |
| 7. | SBT 417 | Environmental Microbiology |
| 8. | SBT 418 | Marine Microbiology |
| 9. | SZL 406 | Medical Protozoology |
| 10. | SZL 416 | Vector Biology |
| 11. | SZL 407 | Medical Helminthology |
| 12. | SZE 403 | Conservation in International Trade and Development |

Student Enrolment

Undergraduate Enrolment (2012/2013 Academic year)

Degree Program	YEAR 1	YEAR 2	YEAR 3	YEAR 4	TOTAL
B.Sc. (Biology)	59	58	36	39	192
B.Sc. (Microbiology & Biotechnology)	97	57	42	42	238
B.Sc. (Environmental Conservation & Natural Resource Management)	61	48	54	54	217
Total	217	163	135	150	665

Postgraduate Enrolment (2012/2013 academic year)

All Programmes	M.Sc. 1 st Year	MSc. Continuing	PhD.	Total
Total – All Programmes	32	56	11	99

International student component

Degree Program	YEAR 1	YEAR 2	YEAR 3	YEAR 4	TOTAL
B.Sc. (Biology)			1		1
B.Sc. (Microbiology & Biotechnology)	1	1		1	3
B.Sc. (Environmental Conservation & Natural Resource Management)			1		1
Postgraduate (MSc and PhD)	4	3			7
TOTAL					12

Research projects

Staff	Research project – Donor
Dr. James Kanya	Hybrid Rice Production (Sponsored by National Council of Science & Technology)
Prof. G. Nyamasyo	Conservation of Pollinators of Agricultural Importance. Funded by the Global Environment
	Facility through the National Museums of Kenya
Dr. A. Muthumbi	Impacts of open access to mangrove ecosystems on benthic biodiversity Funded by VLIR, Belgium
	Impacts of Bait Fishery on benthic Ecology Egerton University, KMFRI
Dr. V. Wang'ond	Impacts of open access to mangrove ecosystems on benthic biodiversity Funded by VLIR, Belgium
Prof. Sheila Okoth	Strategies to control aflatoxin in storage funded by National Council for Science & Technology
	Breeding of maize genotypes for resistance to aflatoxin in sunnysides in Eastern & Southern Africa funded by CIMMYT
	Evaluation of the effectiveness of selected storage technologies in controlling aflatoxin accumulation and pest infestation of maize during storage in Makueni County funded by NCST
Ms. D. Ogony	Investigations into the biology of <i>Labeo cylindricus</i> (pisces : Cyprinidae) and the potential for commercial culture (Ph.D. Project)
Dr. P. Wachira	Deployment of Natural Enemies in the Management of plant parasitic nematodes for improved crop production funded by Dean's Grant
	Phytochemical and Antifungal Investigation of <i>Dierania</i> and <i>Gladidus</i> spp against selected opportunistic fungi
Ms. J. Odhiambo	Strategies to reduce mycotoxin levels in maize during storage funded by NCST (Ph.D. Project) sponsored by DAAD and Dean's grant
Dr. G. Ong'amo	Incidence of climate change on agricultural systems in Kenya funded by Institute de recherche pour le developpement (AIRD)
Dr. D. Odongo	Rural farming resources and practices in a changing environment Funded by PPR-PAREGO
	Molecular epidemiology of Theileriosis in Africa funded by German-African cooperation
	Combination vaccines for control of East Coast fever in cattle funded by USDA
	Identification of potential candidates for inclusion as anti tick/transmission blocking vaccines funded by Swiss center for International Agriculture/Swiss Development cooperation
Prof. Mukabana	Solar power for malaria eradication Funded by COMON Foundation, Netherlands
Dr. D. Kimata	Reproductive biology of the Helmeted guinea fowl in domestic establishments (still looking for sponsorship)
Prof. N. Gichuki	Kenya fish biodiversity assessment. EU and ird France. Wetland ecosystem service to riparian community tana delta Funded by Vsaïd
Prof. T. Mukiyama	Capacity Building of Rural Traditional Herbalists in Kenya World bank/Japanese Social Development Fund
Dr. L. Wambua	Bovine Malignant Catarrhal Fever: Using next generation molecular tools to understand the prevalence in Kenya Funded by: NCST

National & International links and collaborations

S/N	STAFF RESPONSIBLE	POSITION	PARTNER INSTITUTION
1	Prof K.Mavuti	Professor	Kenya National Academy of Sciences
2	Prof. J.I. Kinyamario	Professor	DANIDA
3	Director, SBS	Senior Lecturer	Toxicological Studies and Efficacy - PCPB
4			MoU between Training Centre in Communication & UoN
5			Between SBS and National Museum of Kenya – Mushroom growing facility
6			National Council for Science and Technology
7	Director, SBS/ Prof. R. Mukabana	Senior Lecturer/ Ass. Professor	MoU between UoN & The Ifakara Health Research & Development Centre (IHRDC)
8	Dr Kiboi S	Senior Lecturer	Collaboration between UoN and Yokohama National University
9	Dr. G.O. Ong'amo	Lecturer	French Embassy and IRD (Institut de recherché pour le developpement)
10	Mr Nicholas A Otieno	Tutorial Fellow	Institute of Technology, Carlow – PhD studies

Publications (2012)

1. Okoth S. A., Otadoh J. and Ochanda J., (2011). Improved seedling emergence and growth of maize and beans by *Trichoderma harziunum*. *Journal of Tropical and Subtropical Agroecosystems*. **13**: 65-71.
2. Kawaka J. F., J.W. Kimenju, G. Ayodo, S. W. Mwaniki, J.O. Muoma, S.O. Okoth, G. O. Orinda, (2011). Impact of land use on the distribution and diversity of entomopathogenic nematodes in Embu and Taita Districts, Kenya. *Journal of Tropical and Subtropical Agroecosystems* **13**: 59-63.
3. Otadoh J. A., Okoth, S. A., Ochanda J. and Kahindi J, (2011). Assessment of *Trichoderma* isolates for virulence efficacy on *Fusarium oxysporum* f. sp. *Phaseoli*. *Journal of Tropical and Subtropical Agroecosystems* **13**: 99-107.
4. Siameto E. N., Okoth S., Amugune N. O. and Chege N. C., (2011). Molecular characterization and identification of biocontrol isolates of *Trichoderma harziunum* from Embu District, Kenya. *Journal of Tropical and Subtropical Agroecosystems* **13**: 81-90
5. Wachira P. M., Okoth S, Kimenju K, Mibey R. K and Kiarie J, (2011). Effect of soil fertility management practices on nematode destroying fungi in Taita, Kenya. *Journal of Tropical and Subtropical Agroecosystems* **13**: 43-49.
6. Niels O Verhulst, Phoebe A Mbadi, Gabriella Bukovinszkine Kiss, Wolfgang R Mukabana, Joop JA van Loon, Willem Takken and Renate C Smallegange (2011). Improvement of a synthetic lure for *Anopheles gambiae* using compounds produced by human skin microbiota. *Malaria Journal* **10**:28
7. Renate C Smallegange, Wolfgang H Schmied, Karel J van Roey, Niels O Verhulst, Jeroen Spitzen, Wolfgang R Mukabana, Willem Takken (2010). Sugar-fermenting yeast as an organic source of carbon dioxide to attract the malaria mosquito *Anopheles gambiae*. *Malaria Journal* **9**:292.
8. Mala A.O and **Irungu LW** (2011) Characterization of the factors influencing the differential productivity of *Anopheles gambiae* at larval habitats in Kisian village, western Kenya. *Journal of Vector Borne Diseases* 48: 1–6 <http://www.mrcindia.org/journal>
9. Mala AO, **Irungu LW**, Shililu JI, Muturi EJ, Mbogo CC, Kiambu JK, Githure JI, (2011). Dry season ecology of *Anopheles gambiae* complex mosquitoes at larval habitats in two traditionally semi-arid villages in Baringo, Kenya. *Parasites & Vectors* **4**: 25

<http://www.parasitesandvectors.com/content/pdf/1756-3305-4-25.pdf>

10. Egonyu JP, Sunday E, Kabaru J, **Irungu LW** and Torto B. (2011). Host Odour responses and experience induced learning in the coconut bug, *Pseudotheraptus wayi* Brown (Heteroptera: Coriedae). Poster, 14th Symposium on Insect-Plant Interactions, 13th to 18th August 2011, Wageningen, the Netherlands 122pp.

Consultancies (Toxicological studies)

1. Title of Project: Toxicological & Ecotoxicological Studies
Client: Dudutech/Homegrown (K) Ltd
2. Title of Project: Toxicological & Ecotoxicological Studies
Client: The Real IPM Co Ltd

School Of Biological Sciences – Staff Establishment

7 Professors	-	1.	Prof. J.O. Kokwaro
		2.	Prof. C.P.M. Khamala
		3.	Prof. T.K. Mukiyama
		4.	Prof. R.K. Mibey
		5.	Prof. K.M. Mavuti
		6.	Prof. L.W. Irungu
		7.	Prof. G. Kaaya
8 Associate Professors	-	1.	Prof. M.J. Ntiba
		2.	Prof. H. Ochanda
		3.	Prof. J.I. Kinyamario
		4.	Prof. F.B. Mwaura
		5.	Prof. El Banhawy
		6.	Prof. S. A. Okoth
		7.	Prof. Mukabana
		8.	Prof. P. N. Ndegwa
		9.	Prof. F. Oyieke
		10.	Prof. G. Nyamasyo
		11.	Prof. N. Gichuki
15 Senior Lecturers		1.	Dr. E.M. Akunda
		2.	Dr. J. M. Kabaru
		3.	Dr. A.W. Muthumbi
		4.	Dr. J.G. Omondi
		5.	Dr. N. C. Njoroge
		6.	Dr. S. F. Dossaji
		7.	Dr. J.K. Mworio
		8.	Dr. E.M. Mwangi
		9.	Dr. C.W. Lukhoba
		10.	Dr. N. Amugune
		11.	Dr. D.O. Odongo
		12.	VACANT

	13.	VACANT
	14.	VACANT
	15.	VACANT
22 Lecturers	1.	Dr. W. Mutahi
	2.	Dr. J. M. Githaiga
	3.	Dr. D.M. Kimata
	4.	Dr. R.M. Chira
	5.	Dr. M.M. Jumba
	6.	Dr. A.W. Muohi
	7.	Dr. S.K. Kiboi
	8.	Dr. P. M. Wachira
	9.	Dr. Ileri Kanya
	10.	Dr. Maina Wagacha
	11.	Dr. Dorcas A. Sigana
	12.	Dr. Virginia Wang'ondy
	13.	Dr. George O. Ong'amo
	14.	Dr. Anthony Otieno
	15.	Dr. Lilian Wambua
	16.	VACANT
	17.	VACANT
	18.	VACANT
3 Assistant Lecturers	1.	Mrs. Alice. A. Arrumm
	2.	Ms. Dorothy A. Ogony
	3.	VACANT
3 Tutorial Fellows	1.	Nicholas A. Otieno
	2.	Mrs. J. K. Omari
	3.	Mr. G. K. Kipkoech
	4.	Ms. Judith Odhiambo
4 Graduate Assistant	1.	Ms. Eunice Owino
	2.	Ms. Abigael Auko
	3.	Ms. Catherine Kitonde
	4.	VACANT

2 Demonstrators	1.	VACANT
	2.	VACANT
1 Principal Technologist	1.	Mr. H. O. Odongo
2 Chief Technologists	1.	Judy V. A. Shilavula
	2.	VACANT

Summary of graduates (BSc., MSc. & PhD.)

Degree Program	2011/2012
B.Sc. (Biology)	35
B.Sc. (Microbiology & Biotechnology)	48
B.Sc. (Environmental Conservation & Natural Resource Management)	34
M.Sc.	16
Ph.D.	6
Total Graduates	139

Conference Proceedings

1. Dr. Samuel Kiboi – Workshop on African Model Law on Biosafety. Johannesburg, South Africa.
2. Dr. David Odongo – Conference in Melbourne, Australia
3. Dr. David Odongo – Conference in Brisbane,
4. AustraliaProf.Okoth-Writers and Reviewers Workshop for BSc and MA
5. Prof.Mavuti-Writers and Reviewers Workshop for BSc and MA
6. Dr. Wangondu-Writers and Reviewers Workshop for BSc and MA
7. Mr. Kirui-Writers and Reviewers Workshop for BSc and MA
8. Ms Shilavula-Alcohol and Drug Abuse Interventions Peer Counsellors
9. Prof.Mavuti-14TH World Lakes Conference
10. Prof.Kinyamario- Regional Coordination and AU-RECs Meeting on Bio safety
11. Prof Mwaura-ATPS Annual Conference and Workshop
12. Dr.Peter Wachira-International Environment Leaders Training for Sustainable Living with Environmental Risk.

Staff attending conferences and other academic fora

Staff Name	Conference attended	Date	Venue
Dr. D. Odongo	Immunology in East Africa	24 th -25 th May 2012	KEMRI Training Centre
Dr. Dossaji	How to update Profiles and upload course materials and Publications.	23 rd March 2012	SCI
Dr. Dossaji	Sensitization Training of staff on Information Systems Security Safety Measures	02 April 2012	LLT
Dr. Dossaji	Research and Grant Proposal Writing	March 2012	UNES
Dr. L. Wambua	SLU-East Africa Collaborative Workshop	12 th -15 th June 2012	Ultuna Campus
Dr. E. Akunda	How to update Profiles and upload course materials and Publications.	23 rd March 2012	SCI
Dr. E. Akunda	Sensitization Training of staff on Information Systems Security Safety Measures	02 April 2012	LLT
Prof. S. Okoth	MYCORED NATFA	24 th -28 th June 2012	Ottawa, Canada
Elsa Ouma	Training in Counselling Skills	8 th Feb 2012	SPS Boardroom
Hesbon Odongo	Training in Counselling Skills	8 th Feb 2012	SPS Boardroom
Judy Shilavula	Training in Counselling Skills	8 th Feb 2012	SPS Boardroom
Jane Njeri	Training on Records Management	30 th June 2012	CCU

Papers presented in conferences and other academic fora

Staff Name	Title of the Paper	Conference/Journal	Date
Prof. C. Khamala	Growth and Development of Cassava Predatory mite under different relative Humidity Regimes	E. Afr. agric. For. J	March 2012
Dr. D. Odongo	Development of anti-tick vaccines in cattle	Immunology in East Africa	May 24 th 2012
Prof. S. Okoth	Toxigenic Potential of Aspergillus Species Occuring on Maize Kernels in Two Agro-Ecological Zones in Kenya	MYCORED NATFA Ottawa, Canada	24 th -28 th June 2012
Dr. J. Wagacha	Efficacy of Biological Control and Cultivar Resistance on <i>fusarium</i> Head Blight and T-2 Toxin Contamination	American Journal of Plant Sciences	Feb 2012
Dr. C. Lukhoba	A systematic phytochemical and bioactivity study of some medicinal ocimum species from Kenya and Nigeria	Obafemi Awololo University, Nigeria	2012
Dr. J. Wagacha	Management of Thrips in bulb onion by use of vegetable intercrops	International Journal of AgriScience	May 2012
Dr. P. Wachira	Effect of soil fertility management practices on nematode destroying fungi in Taita, Kenya	Tropical and Subtropical Agrosystems	2012
Judy Odhiambo / Dr.C.Lukhoba	Evaluation of Herbs as a potential Drugs/Medicines	Afr J Tradit Complement Altern Med	2011