

THE SCHOOL OF PURE AND APPLIED SCIENCES- KU
34TH POSTGRADUATE SEMINAR PROGRAMME – MASTER GRADUANDS

THEME: “SCALING UP THE ECONOMY THROUGH RESEARCH”.

VENUE: BUSINESS AND STUDENTS CENTRE ROOM 12 & 273

DATE: WEDNESDAY 19TH JULY, 2017

PROGRAMME

TIME:	8.30 – 9.00AM:	REGISTRATION
	9.00 – 9.05AM:	WELCOME ADDRESS – DR. JOYCE MWANIKI (CHAIRMAN, SBPS)
	9.05 – 9.15AM:	OPENING REMARKS – AG. DEAN, SPAS – PROF. NGERANWA
	9.15 – 9.25AM:	REMARKS – DEAN, GRADUATE SCHOOL - PROF. P. OKEMO
	9.25 – 9.35AM:	KEYNOTE ADDRESS –

Below is a detailed programme for the day.

SESSION ONE: CHAIRMAN: Dr. JOYCE MWANIKI RAPPORTEUR: DR. GEORGE OMWENGA ROOM 12						
S/NO	TIME	NAME & REG. NO.	DEPARTMENT	TITLE OF THESIS	DEGREE	SUPERVISOR
1.	9.35 – 9.45am	Mogunde Charles Moraro I56/CE/22416/10	Physics	Optical and Electrical Characterization of Cd _x Se _{1-S} and Cu ₂ S Thin Films for Solar Cell Application.		Dr. Walter K. Njoroge Dr. Mathew K. Munji
2.	9.45 – 9.55am	Albert Nyaberi Mosigisi I56/CE/10987/06	Zoological Sciences	Inhibition of <i>Leishmania major</i> Parasite Growth by Blocking Inflammation Signaling Pathway in Infected Macrophages.	M.Sc.	Prof. Michael Gicheru Dr. Christopher O. Anjili
3.	9.55-10.05am	Kinyanjui Grace Waithira I56/20403/10	Biochemistry & Biotechnology	Characterization of Aphid (Hemiptera: Aphididae) Species in Kenya Using PCR-RFLP and DNA Barcoding.	M.Sc.	Dr. Marion Burugu Dr. Fathiya Khamis Dr. Sunday Ekesi
4.	10.05-10.15	Kahara Mungai Peter I56/CE/24064/12	Chemistry	Speciation of Selected Heavy Metals in Soils and Levels in Tobacco Tree Shrubs Growing around Dandora Dumpsite, Nairobi Kenya.	M.Sc.	Prof. J. I. Murungi Dr. J. Kiptoo

5.	10.15-10.25am	Kariuki Simon Njau I56/14563/09	Biochemistry & Biotechnology	Production of Hybrid Rice Using Environment Sensitive Genic Male Sterile (EGMS) AND Basmati Rice Lines.	MSc.	Dr. Steven Runo Dr. Alice N. Muchugi Dr. Paul Njiruh Nthakanio
6.	10.25-10.35am	Markus Okoth Odhiambo I56/CE/21449/12	Chemistry	Thermo-Chemical Characteristics of Peat as a Potential Gasifier Fuel in the Lake Victoria Basin.	M. Sc.	Prof. Charles Onindo Dr. Eric Masika
10.35 – 11.00am TEA BREAK						
SESSION TWO: CHAIRMAN: DR.SINGH RAPPORTEUR: DR. RICHARD MUSAU						
7. R	11.00 – 11.10am	Kongo Richard Khatali I56/22437/10	Zoological Sciences	Impact of Habitat at Moderation by Weir Installation on Invertebrate and Fish Communities in Rivers Awach-Seme (Kenya) and Nambale (Uganda).	M.Sc.	Dr. Benson M. Mwangi Dr. James J. Jumbe
8.	11.10 – 11.20am	Ong'asia Clarice Kuta I56/CE/22434/10	Zoological Sciences	Infection Rates of <i>Schistosoma Haematobium</i> among Primary School Children in Garsen Constituency, Tana River County, Kenya and the Types of Snail Vectors.	MSc.	Dr. Lucy Kamau Dr. Ngethe Muhoho
9.	11.20 – 11.30am	Wycliffe Onkeo Omwansu I56/CE/26613/11	Physics	Fabrication of Ni _x Ti _{1-x} O/CeO ₂ -TiO ₂ Thin Films for Applications in Smart Windows.	M.Sc.	Dr. M. K. Munji Dr. C. M. Migwi
10.	11.30 – 11.40.pm	Ndungu Paaul Kiruthi I56/CE/14166/09	Zoological Sciences	Efficacy of Combination of <i>Plumbago capensis</i> and <i>Aloe secundiflora</i> Acqueous and	M.Sc.	Prof. Michael Gicheru Dr. Christopher Anjili

				Methanolic Plant Extracts in the Treatment of <i>Leishmania major</i> in BALB/c Mice.		
11.	11.40-11.50	Ngala Mruche Ngenzo I56/CE/11630/08	Zoological Sciences	Evaluation of Mass Drug Prophylactic Administration on <i>Wuchereria Bancrofti</i> among Communities of Selected Villages in Lamu County, Kenya.	M.Sc.	Prof. Michael M. Gicheru Prof. Njeri Wamae
12.	11.50-12.00pm	Ngure Godfrey Mutero I56/23455/12	Biochemistry & Biotechnology	Bioengineering Tomato (<i>Solanum lycopersicum</i> Mill) with Peptide Aptamer for <i>Medooidagyne incognita</i> Chorismate Mutase as a Strategy for Nematode Resistance.	M.Sc.	Dr. Steven Runo Dr. Richard O. Oduor
13.	12.00-12.10pm	Muli Maurice Muteti I56/CE/10636/08	Chemistry	Effects of Soil Texture, pH and Distance on Levels of Heavy Metals in Plants and Soils along a Section of Nairobi – Nakuru Highway. Kenyan Cities, Nairobi and Kisumu.	M.Sc.	Prof. Jane Murungi Prof. Hudson Nyambaka
14.	12.10-12.20pm	Odongo Kenneth Ouma I56/CE/11500/08	Zoological Sciences	Morphological Effects of Selected Heavy Metals on the Nile Tilapia <i>Oreochromis niloticus</i> and African Catfish <i>Clarias gariepinus</i> along River Ruiru, Kenya	M.Sc.	Dr. Syprine A. Otieno Dr. Rekha R. Sharma

12.20 – 2.00pm

HEALTH BREAK

SESSION 3

CHAIRMAN: DR. PUAL MUORIA

**RAPPORTEUR: DR. WINFRED
MUTUKU**

S/NO	TIME	NAME & Reg. No.	DEPT	TITLE OF THESIS	DEGREE	SUPERVISORS
15.	2.00-2.10p.m.	Okapes Joseph John I56/CE/21069/12	Chemistry	A Comparative Study of Modified and Unmodified Algae for Removal of Lead, Cadmium and Copper from Contaminated Water.	M.Sc.	Dr. Isaac W. Mwangi Prof. Sauda Swaleh
16.	2.10-2.20 p.m.	Kennedy Muchiri I56/CE/22773/10	Physics	Design and Fabrication of a Simple Digital to Analog Decoder for Analog TV Reception.	M.Sc.	Dr. M. K. Mun Dr. J. N. Mutuku
17.	2.20- 2.30 p.m.	Kariuki Duncan Maina I56/CTY/PT/27310/14	Biochemistry & Biotechnology	In Vivo Safety of Dichloromethane-Methanolic Extracts of <i>Allium satiyum</i> L. in Swiss Albino Mice.	M.Sc.	Dr. Mathew Ngugi Dr. David Mburu
18.	2.30 – 2.40 pm.	Dorothy Annah Mbuvi I56/28368/14	Biochemistry & Biotechnology	Genetic Bases of <i>Striga hermonthica</i> (Del.) Benth Resistance in Wild Sorghum Accessions	M.Sc.	Dr. Steven Runo Dr. Mark Wamalwa
19.	2.40 – 2.50 p.m	William Kailo Munyoki I56/CE/22237/10	Chemistry	Assessment of Diacetylmorphine and Selected Adulterants and impurities in Heroin Seized in Nairobi, Kenya.	M.Sc.	Prof. Hudson Nyambaka Dr. Evans C. Ogwagwa
20.	12.50 – 3.00pm	Wambua Philomena Nduku I56/24064/13	Zoological Sciences	Reflects of Crude Khat (<i>Catha edulis</i>) Extract on Selected Cytokine Profiles and Foetal Growth among Pregnant Baboons (<i>Papio anubis</i>).	M.Sc.	Prof. Michael Gicheru Dr. Atunga Nyachieo
21.	3.00 -3.10 p.m.	Mwangi Ibrahim Ndungu I56/CE/26257/11	Biochemistry & Biotechnology	Schistosoma Mansoni Susceptibility to Fraziquantel in Endemic Localities in Kenya.	M.Sc.	Dr. Steven M. Runo Dr. Gerald M. Mkoji
22.	3.10 – 3.20p.m.	Gaichu Daniel Muthee	Biochemistry &	Antipyretic and Anti-	M.Sc.	Dr. Mathew Ngugi

		I56/CTY/PT/27105/14	Biotechnology	Inflammatory Activities of Dichloromethane-Methanolic Leaf and Stem Bark Extracts of <i>Ximenia americana</i> in Rats and Mice Models.		Dr. David Mburu
23.	3.20 – 3.30 pm.	Ndivo Felix Mwanzia I56/CE/21654/12	Plant Sciences	Effects of Neem, Garlic and Aloe Extracts on the Development of Postharvest Potato Soft Rot Caused by <i>Erwinia Caratovara</i> Bacteria.		Dr. Jonah Birge Dr. Ezekiel Mugendi Njeru

12.50
3.00pm

HEALTH BREAK

ROOM:273

SESSION: TWO

RAPPOCTEUR: DR. EUNICE KAIRU

CHAIRMAN: DR. A. K. NYAMACHE

S/NO	TIME	NAME & REG. NO.	DEPARTMENT	TITLE OF THESIS	DEGREE	SUPERVISOR
1.	11.00-11.10am	Immaculate Tumuhimbise I56EA/20538/12	Geography	Spatio-Temporal Changes in Land Use Patterns Influencing the Size of Namulonge Wetland, Wakiso	M.Sc.	Prof. Joy Obando Dr. Yazidhi Bamutaze
2.	11.10-11.20am	Nyairo Emelda Gekondo I56/10274/07	Biochemistry & Biotechnology	Changes in Immunological, Biochemical and Hematological Parameters of HIV-1 Positive Patients on Antiretroviral Therapy in Mbagathi County Hospital, Nairobi.	M.Sc.	Prof. Eliud N. M. Njagi Dr. George O. Orinda
3.	11.20-11.30am	Lucy Nyokabi Kimani I56/24140/13	Biochemistry & Biotechnology	Levels of Glycosylated Hemoglobin in Healthy Individuals, and Its Relationship	M.Sc.	Prof. Eliud N. M. Njagi Dr. Stanley K. Waithaka

				with Random Blood Glucose, Hemoglobin and Its Related Indices in Diabetes Mellitus Patients.		
4.	11.30-11.40am	Andrew Yotui Chepyegon I56/CE/11000/06	Physics	Compression of Pulse Code Modulation Signal Using Type IV Discrete Cosine Transform Based on the MP3 Model.	M.Sc.	Dr. Willis Ambusso Dr. Mathew Munji
5.	11.40-11.50am	Too Chebet I56/CE/22424/10	Zoological Sciences	Prevalence of Amoebiasis and the Factors Associated with Its Transmission among Patients Attending Longisa County Hospital, Bomet County, Kenya.	M.Sc.	Dr. Lucy Kamau Dr. Syprine Otieno
6.	11.50-12.00pm	Mwashighadi Laban Mwadime I56/CE/14408/09	Biochemistry & Biotechnology	Genotype-Independent Regeneration of Hybrid Maize Cultivated at the Coastal Region of Kenya.	M.Sc.	Dr. Allan J. Mgtutu Dr. Sylvester E. Anami
7.	12.00-12.10pm	Usagi Betsy Maryanne I56/CE/23959/11	Microbiology	Identification and Determination of Antimicrobial Resistance Profiles of <i>Mycobacterium tuberculosis</i> Complex from HIV Positive Patients in Kisumu County, Kenya.	M.Sc.	Dr. John M. Maingi Dr. Anthony Kebira
8.	12.10-12.20pm	Hezekiah Njogu Muhia I56/CE/11474/07	Microbiology	Antifungal Activity of Honey and Crude Extracts from Selected Plants against <i>Alternaria solani</i> (Tomato Early Blight Pathogen).	M.Sc.	Dr. John M. Maingi Dr. Jonah K. Birgen
12.20-2.00pm <p style="text-align: center;">HELATH BREAK</p>						

9.	2.00-2.10pm	Omwonyo Bethseba Olga Atieno I56/CTY/PT/22635/11	Statistics & Actuarial Science	Use of Logistic Regression Analysis to Determine Significant Factors that Affect Contraceptive Use among Teenagers in Yala and Luanda Towns, in Kenya.	M.Sc.	Dr. Titus Kibua Dr. Samson Ayugi Dr. George Otieno Ochieng
10.	2.10-2.20pm	Njue Martin Kivuti I56/CE/20531/12	Chemistry	Using Cilantro Leaves and Stems to Remove Lead, Cadmium and Turbidity from Contaminated Water.	M.Sc.	Dr. Harun Mbatha Mbuvi Dr. Margaret Mwhaki Ng'ang'a
11.	2.20-2.30pm	Jackson Matundura Obegi I56/CE/24062/12	Chemistry	Phytochemical Composition and Repellency of Volatiles Emitted by Live Potted <i>Mentha piperita</i> (Peppermint) Plants Against <i>Anopheles gambiae sensu stricto</i> .	M.Sc.	Dr. Margaret Ng'ang'a Dr. David Mburu Prof. Ahmed Hassanali
12.	2.30-2.40pm	Muthuri Aquiline Kathambi I56/CE/14212/09	Chemistry	Synthesis and Characterization of Low Oxidation State Cobalt Chelates.	M.Sc.	Evans Changamu Ogwagwa Prof. Naftali T. Muriithi
	2.40-2.50 a.m.	Erick Rayora Nyakundi I56/CE/24486/12	Physics	Geophysical Investigation of Geothermal Potential of the Gilgil Area Nakuru County, Kenya Using Gravity Method.	M.Sc.	Dr. Willis Ambusso Dr. John Githiri
	2.50-3.00 p.m	Mavuze Maxwell Mbalanya I56/CE/24052/12	Plant Sciences	Effect of <i>Allium sativum</i> Bulb, <i>Azadirachta indica</i> and <i>Lantana camara</i> Leaf Extracts on Root-Knot Nematodes on Tomatoes in Mwea-East, Kenya.	M.Sc.	Dr. Jonah Birgen Dr. George Muhia Kariuki
	3.00 3.10 pm.	Hildah Kithinji I56/29000/14	Biochemistry & Biotechnology	Strigolactone Profile of Selected Wild and Cultivated Sorghum Accessions.	M.Sc.	Dr. Steven Runo Dr. Amos Alakonya
	3.10 - 3.20 p.m.	Muriuki Karugi Moses I56/26687/13	Geography	Effects of Human Activities on Hydrology of Ewaso Narok	MSc.	Prof Joy Obando Prof. Dr. Bernd Diekkrieger

				Wetland, Laikipia, Kenya.		
3.20 -3.30 p.m.	TEA BREAK					
4.00	CLOSING CEREMONY					