

SCHOOL OF PURE AND APPLIED SCIENCES- KU
37TH POSTGRADUATE SEMINAR PROGRAMME – MASTER GRADUANDS

THEME: “DEMAND-DRIVEN EDUCATION AND RESEARCH FOR INNOVATION AND INDUSTRIALIZATION”.

VENUE: BUSINESS AND STUDENTS CENTRE ROOM 12 AND 152

DATE: WEDNESDAY 28TH NOVEMBER, 2018

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. MICHAEL M. GICHERU
9.15 – 9.25AM: **REMARKS** – DEAN, GRADUATE SCHOOL – PROF. ELISHEBA KIMANI
9.25 – 9.35AM: **KEYNOTE ADDRESS** –

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	Shivachi Newton Shuma	Physics	Design and Fabrication of a Microcontroller Based Carbon	M.Sc. <i>(Electronics &</i>	Prof. Elijah Mwangi

		I56/CE/14110/09I56/CE/28375/13		Monoxide Monitoring and Mapping System Using GPS Technology.	<i>Instrumentation</i>	Dr. Patrick Karimi
2.	9.45 – 9.55am	Munywoki Abednego Wambua I56/CE/26173/11	Physics	Positron Impact Excitation for the Lowest Autoionizing State of Cesium Using the Distorted Wave Method.	M.Sc. (<i>Physics</i>)	Dr. C. S. Singh Prof. John Okumu
3.	9.55-10.05am	Moses C. O. Lorre I57/0253/03	Zoological Sciences	Human Immunodeficiency Virus Prevalence among Secondary School Student Blood Donors in Nairobi County, Kenya.	MPHE	Prof. Michael M. Gicheru Prof. Ephantus W. Kabiru
4.	10.05-10.15	Getuno Dorothy Nyasuguta I56/CE/26246/11	Chemistry	Capacity and Efficiency of Bagasse Adsorbents at Different Experimental Conditions for De-Contamination of Spiked Water.	M.Sc. (<i>Chemistry</i>)	Dr. Harun Mbuvi Dr. Evans Changamu
5.	10.15-10.25am	Bernard Chege I56/CE/14213/09	Chemistry	Forms and Bioavailability of Zinc and Copper Essential Elements in Parts of Watermelons from Ngara and Mwea Markets, Kenya.	M.Sc. (<i>Applied Analytical Chemistry</i>)	Prof. Jane Murungi Prof. Ruth N. Wanjau
6.	10.25-10.35am	Maato Ombaba Jared I56/CE/14122/09	Physics	Design and Fabrication of a Computer-based Fingerprint Security System for Restricted Access Control.	M.Sc. (<i>Electronics & Instrumentation</i>)	Prof. Elijah Mwangi Dr. Patrick Karimi
10.35 – 11.00am HEALTH BREAK						
SESSION TWO:		CHAIRMAN: DR.SINGH			RAPPORTEUR: DR. RICHARD MUSAU	
7.	11.00 – 11.10am	Brimas Waswa Kituyi I56/CE/28406/13	Plant Sciences	Effects of <i>Bischofia javanica</i> (Bishopwood) on Stand Structure and Species Diversity in Natural and Planted Vegetation Types in Kakamega	M.Sc. (Plant Ecology)	Dr. Emily Wabuyele Dr. John Otuoma

				Forest, Kenya.		
8.	11.10 – 11.20am	Carolyn Wachu Maina I56/CE/26836/13	Zoological Sciences	Effects of Land Use and Seasonality on the Distribution of Mayflies and Water Quality along Thika River, Kenya.	M.Sc. (<i>Animal Ecology</i>)	Dr. James J. Jumbe Dr. Benson M. Mwangi
9.	11.20 – 11.30am	Nicholas Kariuki Ndwiga I56/CE/28336/13	Physics	Design and Construction of a Microcontroller-Based Five Degree of Freedom Robotic Arm Using Servo Motors.	M.Sc. (<i>Electronics & Instrumentation</i>)	Dr. Mathew K. Munji Dr. Willis J. Ambusso
10.	11.30 – 11.40.p.m	Nderitu Samuel Muturi I56/CE/26891/11	Chemistry	Retention of Extractable Beta Carotene from <i>Asystasia mysorensis</i> and <i>Solanum nigrum</i> Vegetables Stored in Edible Sunflower and Palm Oils.	M.Sc. (<i>Applied Analytical Chemistry</i>)	Dr. Mildred Nawiri Prof. Hudson Nyambaka
11.	11.40-11.50	Cherono Eunice I56/CE/25225/13	Zoological Sciences	Immune Responses in Patients Co-infected with HIV and Mycobacterium tuberculosis Attending TB Clinic in Kericho County Hospital, Kenya.	M.Sc. (<i>Immunology</i>)	Prof. Michael Gicheru Dr. Joshua Mutiso
12.	11.50-12.00pm	Sieberi Berick Moturi I56/CE/26345/14	Biochem. & Biotechnology	In Vitro Antibacterial Activities of Dichloromethane: Methanol Extracts of <i>Fuerstia Africana</i> , <i>Polygala Sphenoptera</i> and <i>Centella Asiatica</i> Against Selected Bacteria.	M.Sc. (<i>Biotechnology</i>)	Dr. George Isanda Omwenga Dr. Mathew Piero Ngugi
13.	12.00 -12.10 p.m.	Shikuku Evans Tsabuko I56/CE/21226/12	Geography	Stream Flow Responses to Land Use/Land Cover Changes in Kimondi Watershed, Yala River Basin, Nandi County, Kenya.	M.Sc. (<i>Hydrology and Water Resources</i>)	Dr. Shadrack Murimi Dr. Anthony Macharia
14.	12.10 – 12.20 p.m.	Duke Ateyeh Oeba I56/CE/22400/10	Physics	Electrical and Optical Characterization of Cu ₄ SnS ₄ and CdS:B Thin Films for Photovoltaic Applications.	M.Sc. (<i>Electronics and Instrumentation</i>)	Dr. W. K. Njoroge Dr. M. K. Munji
15.	12.20 -12.30 p.m.	Sigei Kipkirui Enock I56/22808/12	Chemistry	The Nanostructured Silicon from Rice Husks for High	M.Sc. (<i>Chemistry</i>)	Dr. Erick Masika

				Performance Li-Ion Battery Anodes: Synthesis, Characterization and Electrochemical Properties.		Dr. Dickson M. Andala
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12.00 – 1.00pm

HEALTH BREAK

ROOM:152

SESSION: TWO

CHAIRMAN: DR. PUAL MUORIA

RAPPORTEUR: DR. WINFRED MUTUKU

S/NO	TIME	NAME & Reg. No.	DEPT	TITTLE OF THESIS	DEGREE	SUPERVISORS
1.	11.00-11.10 a.m.	Magare Onchuru Robert I56/20406/12	Physics	Fabrication and Characterization of TiO ₂ /In (OH)Os/SnS Composite ETA Solar Cell.	M.Sc. (<i>Electronics and Instrumentat ion</i>)	Dr. Mathew Munji Dr. Robinson Musembi
2.	11.10-11.20 a.m.	Charles Chirchir Chemosong I56/CE/22464/10	Physics	Gravity Survey of Moinonin Area in Lake Baringo Geothermal Prospect, Kenya.	M.Sc. (Geophysics)	Dr. Willis J. Ambusso Dr. Githiri J. Gitonga
3.	11.20- 11.30 a.m.	Otieno Hellen Achieng' I56/22710/12	Zoological Sciences	Plasma Adiponectin, Interferon- Gamma and Interleurin-10 Levels in Human Immunodeficiency Virus and Hepatitis B Virus Infected Adults in Mombasa County, Kenya.	M.Sc.(Immun ology)	Prof. Michael Gicheru Dr. Tom Were
4.	11.30 -11.40 a.m.	Kassim Mohammed Tsanuo I56/CE/26247/11	Chemistry	Determiration of Lead, Cadmium and Nickel in Henna Leaves and Cosmetic Henna Products within Lamu County,	M.Sc. (Chemistry)	Prof. Jane Murungi Prof. Sauda Swaleh

				Kenya.		
5.	11.40 – 11.50 a.m	Edward Omuga Ntabo I56/CE/22398/10	Physics	Characterization of p-SnS/n-CdS:Zn Thin Film Solar Cell	M.Sc. (<i>Electronics and Instrumentation</i>)	Dr. Mathew K. Munji Dr. Robinson J. Musembi
6.	11.50 – 12.00 p.m.	Ngari Loise Ngithi I56/24137/13	Biochemistry, Microbiology & Biotechnology	Phenotypic and Genetic Diversity of Khat (<i>Catha edulis</i> Vahl) Varieties Growth in Meru and Embu Counties, Kenya.	M.Sc. (<i>Biotechnology</i>)	Dr. Mathew Piero Ngugi Dr. Joseph Kamau
7.	12.00 – 12.10 p.m.	Basweti Judy Kwamboka I56/CE/14209/09	Chemistry	Levels of Physicochemical Parameters and Polycyclic Aromatic Hydrocarbons in Water, Soils and Sediments from a Section of River Nzoia, Kakamega County, Kenya.	M.Sc. (<i>Applied Analytical Chemistry</i>)	Dr. Mildred Nawiri Prof. Hudson N. Nyambaka
10.	12.10-12.20 p.m	Nancy Wanja Ileri I56/CE/12771/09	Physics	Characterization of Its Telluride (Sn_xTe_y) Thin Film for Phase Change Memory Application.	M.Sc. (<i>Electronics and Instrumentation</i>)	Dr. Walter K. Njoroge Dr. Patrick M. Karimi
12.	12.20 -12.30 p.m.	Mavyline Kemunto Motari I56/22434/12	Physics	Simulation of Cosmic Ray Muon Charge Ratio at Energies up to 10 TeV Using Epos LHC.	M.Sc. (<i>Environmental Physics</i>)	Dr. Nadir O. Hashim Prof. Dr. Markus Risse
12.30 p.m. HEALTH BREAK						
CLOSING CEREMONY						