

SCHOOL OF PURE AND APPLIED SCIENCES- KU

45TH POSTGRADUATE SEMINAR PROGRAMME – MASTER GRADUANDS

THEME: “RESEARCH AND INNOVATION FOR SOCIAL AND ECONOMIC DEVELOPMENT”

VENUE: VIRTUALLY

SEMINAR FACILITATOR: DR. EVANS CHANGAMU

DATE: TUESDAY 4TH JULY, 2023

THE SEMINAR ILINK: <https://meet.google.com/hqn-xpmd-wry>

Or dial: (KE) +254 20 3893887 PIN: 289 151 726 9277#

PROGRAMME:

TIME: 8.00 – 9.00AM: REGISTRATION
9.00 – 9.05AM: WELCOME ADDRESS – DR. EUNICE KAIRU (CHAIRMAN, SBPS)
9.05 – 9.15AM: OPENING REMARKS – EXECUTIVE. DEAN, SPAS – PROF. MICHAEL M. GICHERU
9.15 – 9.25AM: REMARKS – DEAN, GRADUATE SCHOOL – PROF. ELISHEBA KIMANI

CHAIRMAN: DR. EUNICE KAIRU		ALL STUDENTS		RAPPORTEUR: DR. FIDELIUS MAGERO		
S/NO	TIME	NAME & REG. NO.	DEPARTMENT	TITLE OF THESIS	DEGREE	SUPERVISOR
1.	9.25 – 9.35am	Wambugu Enoch Njoroge I56/CTY/PT/	Biochemistry, Microbiology and	Evaluation of Sex Selection Activity and Safety of <i>Vernonia Amygdalina</i> (Del), <i>Rubia Cordifolia</i> (Linn), and	M.Sc. <i>Medical Biochemistry</i>)	Prof. Eliud N. M. Njagi Dr. John K. Mwonjoria

		38030/2017	Biotechnology	<i>Asparagus Racemosus</i> (Willd), in Rats.		
2.	9.35 – 9.45am	David Mbugua I56/39499/2016	Geography	Effects of Produced Water on Physicochemical Properties of Groundwater in Lokichar Basin, Turkana County, Kenya.	M.Sc. <i>(Integrated Watershed Management)</i>	Dr. Mary K. Makokha Prof. Christopher A. Shisanya
3.	9.45-9.55am	Muya Virginia Wambui I56/CTY/PT/ 25200/2018	Chemistry	Determination of Vitamin Concentration in Fresh, Sun and Oven Dried Selected Edible Insects Collected from Siaya County, Kenya.	M.Sc. <i>(Applied Analytical Chemistry)</i>	Prof. Hudson Nyambaka Prof. Judith Kimiywe Dr. Chrysantus Mbi Tanga
4.	9.55-10.05 am	Famau Jamil Mahdy I56/37829/2017	Chemistry	Determination of Benzopyrene Levels in Cashew Nut Samples Processed Using Different Traditional Methods and Fuel Sources from Kilifi County, Kenya.	M.Sc. <i>(Applied Analytical Chemistry)</i>	Prof. Jane I. Murungi Dr. Alphonse W. Wanyonyi
5.	10.05-10.15	Gor George Odhiambo I56/37531/2016	Geography	Effects of Variations in Rainfall Amounts on the Water Table Fluctuations in Kano Plains, River Nyando Basin, Kisumu County, Kenya.	M.Sc. <i>(Hydrology and Water Resources)</i>	Dr. Mary Makokha Prof. Joy Obando

10.15 – 10.30 am

CHAIRMAN: PROF. CHANDRA SINGH

HEALTH BREAK

RAPPORTEUR: DR. FREDRICK MALOBA

GROUP 1

6.	10.30-10.40 a.m.	Caroline Chepkemoi I56/CE/28357/ 2015	Plant Sciences	Infestation of Coffee and other Crops by Field Dodder (<i>Cuscuta campestris Yunker</i>) in Kericho County, Kenya.	M.Sc. <i>(Plant Ecology)</i>	Dr. Emily Wabuye Dr. Paul Muoria
7.	10.40-10.50 a.m.	Kipkemoi Daisy Jepkosgei I56/27498/2018	Biochemistry, Microbiology and Biotechnology	Cognitive Enhancing Effects of Aqueous Extracts of <i>Amaranthus dubius</i> Mart. Ex Thell and <i>Vigna unguiculata</i> (L.) Walp. In Mice	M.Sc. <i>(Biochemistry)</i>	Dr. Mathew Piero Ngugi Dr. Anthony Ireri
8.	10.50 -11.00 a.m.	Nasokho Ruth Simuli	Mathematics	Determining the Socio-Economic	M.Sc.	Prof. Leo Odongo

		I56/CTY/PT/21416/2010	and Actuarial Science	Classes Using Principal Component Analysis Based on Binary Data.	(<i>Biostatistics</i>)	Dr. Antony Gichangi
9.	11.00 – 11.10 am	Samoei Chemutai Judith I56/32938/2015	Biochemistry, Microbiology and Biotechnology	Phytochemical Composition, <i>In Vitro</i> Antimicrobial Activity, and Cytotoxicity of Essential Oils of <i>Ocimum gratissimum</i> , <i>Ocimum kilimandscharicum</i> and <i>Lippia javanica</i> .	M.Sc. (<i>Biotechnology</i>)	Dr. George I. Omwenga Dr. Mathew Piero Ngugi Dr. Christine Bii
10.	11.10 – 11.20 am	Kasau Andrew Muthambii I56/39242/2017	Physics	Analysis of Energy Requirements for Grid-Tied Solar Energy Systems for Medium Industrial Applications.	M.Sc. (<i>Electronics and Instrumentation</i>)	Dr. Raphael Nyenge Dr. Mathew Munji
11.	11.20 -11.30 am	Nyaga Janeleah Wanja I56/CE/28337/ 2013	Physics	Design of a Microcontroller Based Home Access System Using the Global System for Mobile Communication.	M.Sc. (<i>Electronics and Instrumentation</i>)	Dr. Mathew K. Munji Dr. Raphael L. Nyenge
12.	11.30 -11.40 a.m.	Chege Robert Macharia I56/CE/28303/ 2013	Chemistry	Hydrogeochemical Analysis and Modeling of Groundwater in South Kinangop, Nyandarua County, Kenya.	M.Sc. (<i>Chemistry</i>)	Dr. G. Kibe Macharia Dr. Paul Njihia Gichuhi
13.	11.40 – 11.50 a.m	Emice Minoos Kioko I56/33517/2015	Biochemistry, Microbiology and Biotechnology	Production and Characterization of Cellulolytic Enzymes of <i>Fusarium solani</i> , <i>Hypoxyylon sp.</i> , <i>Podoscypha petalodes</i> and <i>Fusarium oxysporum</i> Isolated from Decaying Tree Trunks.	M.Sc. (<i>Biotechnology</i>)	Dr. George I. Omwenga Prof. Joseph N. Ngeranwa
14.	11.50 – 12.00 p.m.	Mavanza Spora Aloyce I56EA/26542/ 2019	Biochemistry, Microbiology and Biotechnology	Antibacterial, Antioxidant Activities, Acute Toxicity Effects and Phytochemical Profile of Ethanol Extracts of Selected Plant Species Grown in Tanzania.	M.Sc. (<i>Biotechnology</i>)	Dr. George Isanda Omwenga Dr. Mathew Piero Ngugi
GROUP 2.						
CHAIRPERSON: DR. MARY MAKOKHA			RAPPORTEUR: DR. GEORGE OMWENGA			
1	10.30 – 10.40 a.m	Dinah Muthoni Miriti I56/CE/21651/2012	Biochemistry, Microbiology and	Prevalence of Bacterial Respiratory Infections and Antimicrobial Susceptibility Profile among	M.Sc (<i>Microbiology</i>)	Dr. John Maingi Dr. Antony Kebira

			Biotechnology	Outpatients in Meru Teaching and Referral Hospital, Meru County, Kenya		
2.	10.40 -10.50 a.m.	Lydia Wanyaga I56/10893/2004	Zoological Sciences	Effect of Aqueous <i>Tephrosia Purpurea</i> Aerial Extract on Parasite Replication and Inflammatory Response in <i>Plasmodium Berghei</i> Infected Balb/C Mice.	M.Sc. <i>(Immunology)</i>	Prof. Michael Muita Gicheru Prof. Faith Apolot Okalebo
3.	10.50 – 11.00 a.m.	Silali Nangila Valarie I56/27321/2018	Zoological Sciences	Prevalence of Endoparasites and Phylogenetics of Ectoparasites Infesting Prawns and Lobsters along the Kenyan Coast.	M.Sc. <i>(Applied Parasitology)</i>	Dr. Fredrick Chimoyi Maloba Dr. Thomas Kalama Mkare
4.	11.00 – 11.10 a.m.	Kibet Charles Kirui I56/CE/28294/2015	Biochemistry, Microbiology and Biotechnology	Harnessing the Potential of Phosphate Solubilizing Bacteria for Improvement of Maize and Cowpea Production in Semi-Arid Agro-Ecosystems of Eastern Kenya.	M.Sc. <i>(Biotechnology)</i>	Dr. Ezekiel Mugendi Njeru Prof. Steven Runo
5.	11.10 – 11.20 a.m.	Schola Kamwethya Peter I56/28229/2018	Zoological Sciences	Seroprevalence and Antimicrobial Resistance of Non-Typhoidal <i>Salmonella</i> Disease and Associated	M.Sc. <i>(Immunology)</i>	Dr. Joshua Mutiso Prof. Samuel Kariuki
6.	11.20 – 11.30 a.m.	Kariuki Ibrahim Waweru I56/38032/2017	Biochemistry, Microbiology and Biotechnology	Antibacterial, Antioxidant, Phytochemical Profile and Toxicological Effects of Aqueous Extract of <i>Rhaphiolepis bibas</i> (Lour.).	M.Sc. <i>(Biotechnology)</i>	Dr. John Maingi Dr. Anthony Kebira
7.	11.30 –11.40 a.m	Njiru James Lincon Nthiga I56/32288/2015	Physics	Fabrication and Characterization of Zinc Oxide Nanostructured Natural Dye Sensitized Solar Cell.	M.Sc. <i>(Physics)</i>	Dr. John Maingi Dr. Mathew Piero Ngugi
8.	11.40-11.50 am.	Sylvia Jepkemboi I56/37508/2017	Biochemistry, Microbiology and Biotechnology	Molecular Characterization of African Bush Mango (<i>Irvingia species</i>) Using Diversity Arrays Technology.	M.Sc. <i>(Biotechnology)</i>	Dr. Patroba Ojola Odeny Dr. Alice Muchugi
9.	11.50- 12.00 p.m.	Buhendwa Mushagalusa Alain I56F/31925/2015	Geography	Land Cover Change and Small-Scale Hydrological Modeling of Murundu River Watershed, South-Kivu Province, Democratic Republic of	M.Sc. <i>(Integrated Watershed Management)</i>	Dr. Shadrack K. Murimi Dr. Leon Nabahungu Nsharwasi

				Congo.		
10.	12.00-12.10 a.m.	Karanja Francis M. I56/26553/2019	Geography	Application of Geospatial Techniques in Site Selection for Community Small Earth Dams in Olkejuado River Basin, Kajiado County, Kenya.	M.Sc. <i>(Integrated Watershed Management)</i>	Dr. Mary Makokha Dr. Kennedy Obiero
11.	12.10-12.20 a.m.	Caroline Makena Lepore I56/CE/27979/ 2013	Zoological Sciences	Molecular Detection of Entamoeba Species and Factors Associated with Infection among Diarrhoeal Patients Attending Meru Teaching and Referral Hospital, Kenya.	M.Sc. <i>(Applied Parasitology)</i>	Dr. Lucy Kamau Dr. Esther Kanduma

END OF 45TH POSTGRADUATE SEMINAR FOR JULY, 2023 MASTERS GRADUANDS