

**SOT POSTGRADUATE CONCEPT/PROPOSAL/DISSERTATION PRESENTATIONS**

**FRIDAY 12/09/2025.**

**Panel 1: Dr. Wanyoike Ngaii (Panel Chair), Prof. Lucy Waruguru, Dr. Abraham Matheka**

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| **S/No.** | **Student Name** | **Reg. No.** | **Degree Program** | **Project Title** | **Status/ Supervisor** | TIME |
| 1. | DENIS GITHU GITAU | 23/03130 | MDA | EVALUATING MACHINE LEARNING TECHNIQUES FOR FRAUD DETECTION IN DIGITAL PAYMENTS: A RANDOM FOREST APPROACH | Dissertation/Dr.Mugoye | 2:00-2:20PM |
| 2. | ALPHAXARD KIMOTO MWANGI | 21/08673 | MDA | DEVELOP AND OPTIMIZE A NOVEL DEEP LEARNING MODEL FOR LEAF DISEASE DIAGNOSIS USING MULTI OBJECTIVE NEURAL ARCHITECTURE SEARCH AND GENETIC ALGORITHMS. | Proposal/Dr.Mwendia | 2:20-2:40PM |
| 3. | NUTHU JOSEPH MBURU | 22/09117 | MDA | PREDICTING EMPLOYEES' ATTRITION USING A FEEDFORWARD NEURAL NETWORK (FNN): A CASE OF PUBLIC HOSPITALS IN KENYA | Proposal/Dr.Mugoye | 2:40-3:00PM |
| 4. | TOO EMMANUEL KIPYEGON | 23/05174 | MISM | AUTOMATED DISCOVERY AND EVALUATION OF EVASIVE ADVERSARIAL TECHNIQUES IN ACTIVE DIRECTORY ENVIRONMENTS | Concept | 3:00-3:20PM |

**Panel 2: Dr. Kevin Mugoye (Panel Chair) , Dr. Stephen Njenga,Dr.Joyce Kibor**

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| 1. | KITHEKA HELLEN KAVUTHA | 23/05404 | MDS | EMPIRICAL EVALUATION OF LSTM-BASED STOCK PRICE FORECASTING ON THE NAIROBI SECURITIES EXCHANGE IN KENYA | Dissertation/Prof.Lucy Waruguru | 2:00-2:20PM |
| 2. | BERLIN MUHONJA | 17/00982 | MDA | DECISION TREE MODEL FOR CUSTOMER CHURN PREDICTION IN PAY TV INDUSTRY IN KENYA | Proposal/Dr.Mwendia | 2:20-2:40PM |
| 3. | LEONARD KIPNGETICH | 23/07865 | MDS | DATA INTEGRATION AND PROCESSING PIPELINE FOR HEALTH INFORMATION SYSTEMS | Proposal/Dr.Abuonji | 2:40-3:00PM |
| 4. | SHARLEEN WERE | 23/07107 | MDS | EXTREME GRADIENT BOOSTING MODEL TO PREDICT POVERTY LEVELS BASED ON FOOD PRICES INFLATION IN KENYA | Proposal/Dr.Kibuku | 3:00-3:20PM |

**Panel 3: Dr. Simon Mwendia (Panel Chair), Dr, Gabriel Kamau,Dr.Rufus Gikera**

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|  | ROSE K. KIVOTO | 22/04338 | MISM | REGRESSION ANALYSIS OF THE FACTORS DRIVING CYBERSECURITY RISKS IN SMALL AND MEDIUM ENTERPRISES (SMES) IN KENYA | Dissertation/Prof.Lucy Waruguru | 2:00-2:20PM |
|  | EMMA WAIRIMU NDUNG’U | 23/03665 | MISM | AN ADAPTIVE CYBERSECURITY RISK MANAGEMENT FRAMEWORK (ACRMF) FOR STATE-OWNED ENTERPRISES IN KENYA | Proposal/Dr.Abuonji | 2:20-2:40PM |
|  | SHELDON OMBASO SHIKHULE | 23/04020 | MDA | PAVEMENT DETERIORATION PREDICTION ON KENYAN ROADS USING XGBOOST ALGORITHM | Proposal/Prof.Lucy Waruguru | 2:40-3:00PM |
|  | Marius Mulama | 18/03554 | MDS | A Real Time Judgment System for Evaluating Synchronized Choreographed Dance Events Using Pose Estimation | Concept | 3:00-3:20PM |

**PANEL 4: Dr. Rachael Kibuku (Panel Chair) & Dr. Lawrence Nderu,Dr.Ismael Aketch**

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|  | ESTHER MARIACHANA MOTURI | | 23/00778 | MDA | LOGISTIC REGRESSION MODEL FOR PREDICTING MATERNAL AND NEONATAL HEALTH OUTCOMES IN KAKAMEGA COUNTY, KENYA | Proposal/Dr.Mwendia | 2:00-2:20PM |
|  | John Muriuki Karigi | | 23/05109 | MISM | A Framework for Satellite Internet Cybersecurity and Governance: Case Study of Kenya | Proposal/Dr.Abuonji | 2:20-2:40PM |
|  | KARIUKI SAMUEL KIBE | | 23/03322 | MDS | BERTOPIC AND BIOBERT APPROACH TO UNCOVER PEDIATRIC MALNUTRITION NARRATIVES THROUGH BIOMEDICAL TOPIC MODELLING | Proposal/Dr.Rufus | 2:40-3:00PM |
| 4. | PHILEMON OTIENO PETER | | 23/02242 | MDA | LOGISTIC REGRESSION MODEL FOR PREDICTING STUDENT ATTRITION IN KENYAN SECONDARY SCHOOLS | Proposal/Dr.Mwendia/Dr.Wanyoike | 3:00-3:20PM |

**Panel 5: Dr. Paul Abuonji (Panel Chair), Dr. Kaburu/Dr.Edwin Omol**

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| 1. | OTERAH FAITH AGONI | 23/07324 | MDS | A MODEL FOR PREDICTING STUDENT DROPOUT RATES IN KENYA FOR PROACTIVE INTERVENTION | Proposal/Dr.Kibuku | 2:00-2:20PM |
| 2. | GEORGE S. NYANARO | 13/60597 | MDS | PREDICTIVE ANALYTICS OF ART REGIMENS: CLINICAL, IMMUNOLOGICAL, AND VIROLOGICAL OUTCOMES | Proposal/Dr.Rufus | 2:20-2:40PM |
| 3. | Joskevin Otieno | 23/00877 | MDA | TOPIC: Predictive Modelling of Solar Microgrid Energy Demand and Its Socioeconomic Impact in Off-Grid Communities in Africa | Concept | 2:40-3:00PM |
| 4. | GEORGE O. ODUMA | 24/00907 | MDS | DETECTION OF MOTOR INSURANCE FRAUD USING SUPERVISED LEARNING AND SYNTHETIC OVERSAMPLING TECHNIQUE | Concept | 3:00-3:20PM |

PREPARED BY DR. JOHN NGAII WANYOIKE (POST GRADUATE COORDINATOR