

S/No.	Registration No.	Name	Title	Supervisor
1	ENC324-0037/2020	Eda Mumo	Spatial accessibility and competition for blood transfusion services in Bungoma; SUPERVISOR - Dr. Nathan Agutu	
	COMMENTS: How was the data including the LULC Map, DEM, National Parks and Reserves, and Rivers data used in this study?; How were settlements or points of origin determined?; The study's title should indicate clearly that its scope is restricted to paediatric cases; Why did the study focus on paediatrics rather than all patients who require transfusions? Check on the aspect of data limitation with respect to transfusions to all patients; What is the progress on publication and what prospective journals have been identified? Please take note of the comment from the Nov 2021 presentation: <i>"Avoid restricting your analysis to only access mode software. "</i>			
2	ENC324-1433/2021	Neema Kathure	Assessment of Crop and Livestock Production Variability for Agriculture Insurance	Dr. B. Kenduiywo
	COMMENTS: From the presentation's methodology, the aspect of insurance does not come out clearly; What indicators/ criteria do insurance companies typically use in assessing viability for sales of insurance covers to farmers and how are those indicators related to the data and methods proposed for use in this study?; The justification i.e. basis risk of the proposed study did not come out clearly in this presentation; How will high spatial, temporal, and spectral resolution be achieved in this study given the disparity in these characteristics for the proposed datasets?; Revise the dataset vis-a-vis the objectives of the study and expected results; Problem statement needs to be refined; What about the livestock production in non-rangelands e.g. zero-grazed livestock farming?; Consider testing the hypothesis on select counties first before extending to the entire country?; What is the rationale behind crop-yield estimation using indices?			
3	ENC324-1434/2021	Aaron Y. Omanyo	Integration of GIS and Artificial Intelligence in Electoral Boundary Redistricting; A Case Study of Nairobi County	Dr. A. Imwati
	COMMENTS: Avoid the political intonations brought on by gerrymandering; What factors will be considered in redistricting/ boundary delineation in the context of this study?; What techniques will be used in this study?; Carry out thorough literature review; Refine the problem statement; What is meant by automation in the context of this study?; Why only Nairobi county? Why not the whole country? The scope of the proposed study needs to be clearly defined; Should demonstrate automation in the progress presentation;			
4	ENC324-1435/2021	Ochieng Odhiambo	Integrating The Needs for Maritime and Shipping Sector into Marine Spatial Planning	Prof. W. Hunja
	COMMENTS: Check on how to appropriately structure the title and also ensure legibility of slides; Will ship emissions be considered especially if the data exists?; What is the intellectual origin of the proposed study and what is it's scientific contribution?; Study area, scope and problem statement need to be well defined; This is a suitability analysis study, the academic fitness and robustness requirement for this level needs to be clearly demonstrated?			
5	ENC324-1616/2021	Dennis Kimeli	Early and in-season Crop Type Mapping Without Current Year Ground Truth	Dr. B. Kenduiywo
	COMMENTS: Should present a progress in 2 weeks to Dr. Nduati; Multiple concepts have been mixed up and the aspect of in-season and out-season is confusing; The study area map is poorly done; Needs to carry out thorough literature review and understand the concepts; What is the value of the out-of-season crop type mapping?; How will validation be done?; Study time period is not defined; Be specific on crop to be mapped. Methodology mixed up. No understanding of terms used. Revisit the RS and GIS theory.			
6	ENC324-1608/2021	Dolphine Mongina	GIS modelling for the exploration of renewable energy sources in Kenya	Dr. M. Mwaniki
	COMMENTS: How will LiDAR data be acquired and how will this data contribute to assesement or determining wind power density?; Which machine learning techniques are proposed in this study?; Study area?; This is a suitability analysis study, the academic fitness and robustness requirement for this level needs to be clearly demonstrated?; Breakdown of general and specific objectives has not been provided; Objectives also need to be rephrased/ revised to be SMART; How will the socio-economic constraints be measured/ quantified for the purpose of input for ML?;			
7	ENC324-1763/2021	Norah Wamaitha	A GIS-based analysis to assess the potential of waste to energy technologies as a solid waste management strategy. A case study of Nyeri County.	Dr. N. Agutu
	COMMENTS: Objectives are not broken down into general and specific objectives; How will objective three (3) be achieved and how is it related to the study?; This is a suitability analysis study, the academic fitness and robustness requirement for this level needs to be clearly demonstrated?; Should understand the formulas presented at the next presentations; What is the relevance of objective 4 and what factors			

S/No.	Registration No.	Name	Title	Supervisor
			will be considered?; The study's problem and objectives are not clearly defined;	
8	ENC324-1764/2021	Agnes Maina	Use of GIS in the Development of a Bikeability Index to Assess the Cycling-Friendliness of A City: Case Study of Nairobi City.	Dr. T. G. Ngigi
			COMMENTS: What constitutes 'environment' data?; The expected results one imply that one index is sufficient or can be applied to other developing countries; To which objective is the expected result three related?; In the data and methods the phrasing of the purpose of the various datasets implies that the study has already been done; Objectives need to be broken down; Need to differentiate between 'safety' and 'insecurity'; What are the data sources?; How will travel distances be determined i.e. what are the origins and destinations?; Scope of the study needs to be clearly defined.	
9	ENC324-1613/2021	Nancy A. Njago	Flood susceptibility Mapping using Google Earth Engine, GIS, and AHP Multicriteria Decision Making Technique-Case study Nairobi county.	Dr. C. Gaya
			COMMENTS: Susceptibility mapping has been done extensively therefore unless new methods are being proposed and developed in this study, it may not meet the criteria for this level; How will the built environment be taken care of?;	
10	ENC324-1432/2021	Rose Kangai Mutegi	Teleconnection of large scale climatic variability to extreme drought cases in Kenya	Dr. F. Mutua
			COMMENTS: How do the expected results relate to the title and objectives; The concept of 'teleconnections' has been misunderstood in the proposal; Thorough literature review is necessary.	
11	ENC324-1436/2021	Noel Kimurgor Koech	Regression Modelling of degradation in Ndotos Water Tower, Samburu County	Prof. W. Hunja
			COMMENTS: What is the definition of 'degradation' in the context of this study?; What are the inputs for the simulation in this study and what simulation environment will be used?; What are the outputs of the simulations exercise?; The main objective needs to be revised; What is meant by data acquisition in the context of this study?; Should understand the values provided for resolution; Study period and epochs need to be clearly defined; Check on how much data is needed to understand land cover dynamics; Need to understand image handling and remote sensing terminology	
12	ENC324-2014/2021	BENSON SAREYIO NKELE	Analysis Of Land Subdivision And Implications On Land Use Change- A Case Study Of Kitegela, Kajiado County	Dr. A. Imwati
			COMMENTS: Is the detection of boundary edges possible from satellite imagery e.g. for non fenced plots or those fenced with e.g. barbed wire?; Expected results should indicate deliverables and not tasks or processes?; Objectives need to be restructured;	
13	ENC324-1607/2021	Mercy Kathure Nturibi	Application of GIS in Mapping the Sources of Marine Litter in the Kenyan Coastal Region; A Case Study of Watamu Beach in Malindi.	Dr. E. Nduati
			COMMENTS: Consider looking at dynamism of marine litter. How many orthophotos does the student have? What spectral properties would distinguish plastic litter and sand? Polish on theory of photogrammetry. Tide motion will force litter onto the beach so will the litter on the water and on the ocean floor near the beach be considered? What is the size of litter visible on an image? Rethink the project	

S/No.	Registration No.	Name	Title	Supervisor
	and the feasibility of using the stated RS images in this project.			Dr. F. Kiriimi
14	ENC324-1612/2021	GEORGE NGUGI	Flood Risk Mapping Using Multi-Temporal Synthetic Aperture Radar (SAR) and GIS in Lake Baringo Basin	
	COMMENTS: Slides not legible. Too simplistic (mapping water and non-water using S1). No risk mapping or factors of risk anywhere in methods. What is a pre flood image and how would the student know when that was?			Dr. E. Nduati
15	ENC324-1615/2021	STEPHEN M MWAI	Towards Tree Equity: Using GIS And Remote Sensing Techniques to Assess the Significance of Socioeconomic Factors on The Equity of Urban Tree Cover – A Case Study of Nairobi County	
	COMMENTS: What is the significance of socio economic factors? How will storeyed buildings, data on car ownership, house ownership be assessed wrt trees? What is equitable distribution of tree cover? How many trees are enough? What is the purpose of assessing tree equity? What is the practicality of tree equity on the ground? People living in slums have more serious issues than a need to plant trees. How would one evict someone in the slums so as to plant a tree? This seems to be an imagined problem with no basis in a third world country.			Dr. F. Mutua
16	ENC324-2229/2021	Jane J. Njeri Njoroge	GIS-Based Spatial-Temporal Analysis of Road Traffic Accidents Hotspots Involving Vulnerable Road Users: Case Study of Nairobi County, Kenya	
	COMMENTS: Check the meaning of the word “vulnerability” in the title. Do you consider the number of vehicles on the roads considered i.e., ratio of vehicles to accidents since feeder roads might have 2 or 3 vehicles with no accident as compared to a highway? Do you consider road features likely to cause accidents e.g., sharp corners, climbing lanes where container tracks traverse through? Do you consider human behavior e.g., drunk driving, stopping in the middle of highways to collect passengers, non-licensed people operating motorbikes? What is the spatial and temporal resolution of the data NTSA has on accidents? Does this data have spatial coordinates of the actual accident occurrence sites? What units of accidents will be considered in the hotspot map? Consider modelling in a virtual environment to show the effects of different accident-causing factors on out Kenyan roads.			Dr. C. Gaya
17	ENC324-1765/2021	SUBIRA SHEILA NAMADA	Geo-AI Integration in Electricity Distribution Systems: Embakasi South, Nairobi	
	COMMENTS: What is being optimized? What factors will be considered for fraud location identification and load forecasting? Why the assumption that all neighbors in a neighborhood use the same amount of electricity and if there is an increase in a house it is considered an anomaly that is checked as it implies illegal connection on the person’s line? What is the difference between outage management system currently in use and the one proposed for development? Why use ANN and OLS regression to identify electricity fraud locations? Understand the theory in the models proposed for use.			Dr. T. G. Ngigi
18	ENC324-1766/2021	Irene Mboin	Optimization of Geothermal Exploration using Land Surface Temperatures and Automatic Lineament Mapping: Case study of Baringo, Kenya.	
	COMMENTS: What is the link / correlation between LST on the surface and geothermal heat in the earths crust? Which epochs will be considered? How do you tell if there is geothermal potential from LST? Check areas that currently have geothermal works and assess the LST before the work began. Look at a time series may be from the 80’s to check anomalies and try establish if indeed there is ant relationship between LST and geothermal activity. What other factors should be assessed in identifying areas with potential of geothermal energy?			