PANEL COMMENTS ON BSC. GEGIS & GIS RESEARCH PROPOSAL/PROGRESS/PROJECT PRESENTATIONS 5 & 6 TH AUG, 2021. VENUES ELB 112 & 214					Comments & Verdict (Please REMEMBER TO RESPOND TO ALL COMMENTS given including those are not in record)
VENUE: ELB 214 (GROUP B)			Dr. E. Nduati (E.N); Mr. Joshua Mwaura (J.M); Mrs. Nancy Mwangi (N.M); Mr. Charles Wasomi (C.W); Dr. Nathan Agutu (N.A); Dr. Felix Mutua (F.M); Prof. Hunja Waithaka (H.W); Dr. Fridah (F.K) **Facilitators:** Dr. E. Nduati (E.N); Dr. Fridah (F.K)		
Sno.	**Reg. No.**	**Name**	**Proposal Title**	**Time/Supervisor**	
1	ENC222-0368/2016	Michael Wafula Wekesa	SPATIAL TEMPORAL VARIATION OF SEAWEED DISTRIBUTION AND MAPPING ALONG THE KENYAN COAST (KWALE COUNTY)	9.00 (E.N)	wordy, be specific about the study area; check spectral unmixing process; check title vs objectives mapping? Rephrase; specific methods on rs; whole of south coast; outcome of specific objectives; whts the correlation betwwn temp and sea weed; corrrelation and regression?; have you done lit review on the topic; factors affecting seaweed; check previous work in the department; cloud cover aspects; masking might not capture clouds well; time epochs; maybe use sentinel 1? Student to refer to Ahmed frad's study. (work previuos done) Students to provide reference on mapping sea weed from sentiment. Student to investigate use of sentiment 1 proceed
2	ENC222-0149/2017	OKELLO JACOB OKOMO	SPATIOTEMPORAL MODELLING & AUTOMATED IN-SITU SENSORS TO MONITOR HARMFUL ALGAL BLOOMS(HABS): CASE STUDY OF LAKE VICTORIA	9.10 (E.N)	nice ppt presentation; time frame on your objectives; is it chlorophyl or lswt;references to support this connection; check last years work; put an addition onto that work; will you take it to the lake; eg ndarugu where there is pollution; check franklne bett works; explain how well the proxies work; Work similar to Franklin except the sensor bit. To consult Dr. Mutua Proceed
3	ENC222-0168/2017	SIMIYU BRIAN CHELOTI	FOREST FIRE RISK VULNERABILITY ASSESMENT	9.20 (N.M)	last years project; wind propagation; validation data source; extent of the previus fire? Whats the value of the study; land uses in the forests or and how to capture it in the modelling? Check on the factors; how are you weighting? Whats active fires? wheres that data; how many fires resulted from temp vs human induced; farming; epochs of data; Refer to previous student Work in basic – student need to Relook at the project. Restructure
4	ENC221-0295/2016	MWANDAZA John Lugwe	INTEGRATING GROWTH AND ECOLOGICAL PARAMETERS TO ASSESS THE MANIFESTATION OF COCONUT RHINOCEROUS BEETLE: A CASE STUDY OF KILIFI COUNTY	9.30 (C.W)	purpoese of objective 1; how to use canopy pattern in the classification; is the max likehood able to capture the plants; coconuts and palm trees; whats develop in the objectives? Check the flow chart; cloud cover; The core aspect of separating coconut and palm tree or not clear Should review method to achieve this objective Student should review extensively on how coconut plant health is monitored via remote seizing Proceed Revisit the P.C.A method
5	ENC222-0150/2017	OKINYI BRIAN OBARE	ASSESSMENT OF URBAN SPATIAL EXPANSION OF KISII TOWN USING SHANNON'S ENTROPY AND FRACTAL ANALYSIS.	9.40 (N.A)	a bit wordy; maybe future projections; analysis of complexity-methods; value of the study to end user; whats fractal paramter; consult your supervisor; What are the improvement confirmed to part studies Why the two mentioned methods? Not say clear what methodology the study or soil to use Proceed. Consult supervisor

6	ENC222-0356/2017	MBURU EILEEN NJOKI	INVESTIGATING THE INFLUENCE OF LAND USE AND ALCOHOL OUTLET DENSITY ON CRIME	9.50 (F.M)	relationship lu and crime; aspects of prediction?; adtion to more to the regression analysis; objectives look like tasks; check the flow chart; crime data; unique characteristics in juja to incorporate? Future occurrence? Capacity/population characterisations; zonations; more reading on social gis and crime; Clarify how future prediction will be conducted Student to bring prediction strongly. Students needs to clarify the zooming methodology Proceed Restructure
7	ENC221-0294/2016	OANDA Bonventure Maeta	SPATIAL ANALYSIS OF ACCESSIBILITY TO HEALTH SERVICES IN LAMU COUNTY	10.00 (H.W)	wordy; check cartography; wordy flow chart; what geospatial fxt? Be clear on the spatial autocorrelations; clarity on 3rd objective; inequities?; Project not clear Student does not fully comprehend the scientific method to be used. Needs to conduct an indepth interact review Proceed
8	ENC221-0098/2016	MWANZIA Sharon Ndungwa	INVESTIGATING MANGROVE FRAGMENTATION CHANGES AND ITS EFFECT ON LEAF AREA INDEX AND GROSS PRIMARY PRODUCTIVITY IN KWALE COUNTY.	10.10 (F.K)	Restate the objectives – especially 1 & 3 Rephrase the tittle – too long Demonstrate how and why fragmentation is taking place -Causes? Solutions? ; Conduct more review Improve methodology Proceed
9	ENC221-0161/2016	KIMANI Joy Christine Nduta	ASSESSMENT OF THE RELATIONSHIP BETWEEN CARBON STOCKS AND TREE SPECIES CASE STUDY MT KENYA FOREST	10.20 (E.N)	how get species from rs; interact more wih supervisor; How will differentiate the difference species of trees. Which tree produce more carton How will you determine the amount of carbon produced by each species? ; Identify tree species from optical Rs in normal improvable for Mt. Kenya Student should consult supervisor Proceed with caution after adjusts project direction
10	ENC222-0408/2017	KHATSENZIA FAITH	ASSESSING WATER SHORTAGE AND ITS EFFECT ON RICE YIELDS IN MWEA TEBERE IRRAGATION SCHEME	10.30 (J.M)	flow diagram; use of modis data; diferent parts of the flow hcart; altenatives sources of water; rice yield vs climate variablity; This looks too obvious: let water low yields! Give alternative sources of water – eg boreholes and dams – as opposed rain fed – vegetation Objectives are too shallow and unfocussed. Rephrase and re-focus Expected result – too straight forward Methodology is too short!; Methodology not appropriate Not clear why modis are used Regression methodology not appropriate Student should consult supervisor and refine the idea proceed restructure

11	ENC222-0138/2017	Muthee Ian Macharia	IMPACT ASSESSMENT OF URBANIZATION ON GREEN SPACES IN EMBU TOWN	10.40 (E.N)	what level of lulc to get this urban green spaces; more need to be done to make it a project; relation of urbann heat island; topic area been done; look into urban green infrstcurres; maybe new project/see supervisor; where lst in methodology?; Green spaces – how many spaces are there? (Tittle clean up) – most of area is already sub- divided? -monitor sprawl on green spaces- are they being grabbed? Objectives – needs to rephrased / reduced eg No. 3 ? ; Study has previously been done at the depart Student to consult supervisor How to LST used/relevant uk the study?Student to refine the project idea. Proceed/restructure
12	ENC221-0322/2016	MARA Lemayian	ASSESSING THE IMPACTS OF SOIL LOSS AND SEDIMENT YIELDS ON LAKES LEVES. A CASE STUDY OF LAKE BARINGO.	10.50 (C.W)	did you look on previuos dept work? Sedimentation and water levels, you have lake levels? Why rusle why not a different quantification model? Do you have gauge data? Objectives and methodologies; valadiations; is swelling only coming ftom the erosion; maybe swat addition or comparisons models; previous reseearch work in intro.; where would you place evapotranspration/climate; Proceed/restructure
13	ENC222-0157/2017	OWUOR DAVID OUMA	DETERMINATION OF POTENTIAL FISHING ZONES USING REMOTE SENSING AND GIS: LAKE VICTORIA	11.00 (N.A)	your study area vs results map; whats relationship of lsh and fish? Accuracy of sentinel 3 to determine fishing zones? What the end user? Effect of hycanith coverage on fishing zones/pollution/which other fishing models and why GAM; how do you monitor fish schools -how to control over fishing amount. Sentiment 3- is it a thermal system – how accurate is it for underwater mapping Objectives - restate objective 1&3 -relate to methodology Proceed/restructure
14	ENC221-0300/2016	NYAMWEYA Dianah Kemunto	FLASH FLOOD SUSCEPTIBILITY MODELLING USING HYBRID MACHINE LEARNING ALGORITHMS AND SENTINEL-1 DATA IN THE NZOIA RIVER BASIN	11.10 (F.M)	wordy ppt intro; which exactly are the machine languages in use? How do you plan accomplish the prediction; dtasets; Explain susceptibility modelling Refine / refocus objectives; Promote explanation for the ML algorithm Student to clarify the temporal resolution proceed
15	ENC222-0425/2017	WANJIRU Linus Kiboi	SECURITY MAXIMIZATION USING THE INTERNET OF THINGS AND GIS BASED SYSTEMS; CASE STUDY OF JUJA SUBCOUNTY.	11.20 (H.W)	Objectives : refine /refocus Methodology – relate properly with objectives to problem statement. Heart rate sensor The project must be “wearable” can proceed at the risk of repeated /duplicate a past similar project Proceed/restructure
16	ENC222-0159/2017	WELDON KIPNGETICH RUTO	ESTIMATION OF FOREST BIOMASS USING SENTINEL 2	11.30 (F.K)	connection of different terms in the ppt; read more on agb estimations; study needs improvement lots; Method of AGB not clear How are the Allometric used To review lit on AGB Proceed with caution

17	EN221-0301/2016	Hurrystar MORAA Ombonga	ASSESSING AND PREDICTING LOCATIONS WITH OPTIMAL CONDITIONS FOR GROWTH OF HASS AVOCADO	11.40 (E.N)	whats the source of the lulc; check on climate variblity; or add more on the suitabiliy analysis; maybe groundwater effects; as it is suitability is very minimaml; how get the weights; familiariz more on the ahp studies and how to improve it; consult more; Student should focus on future potential Proceed/restructure
18	ENC221-0308/2016	ABDIRAHMAN Abdikarim	ASSESSING ACCESSIBILITY AND SOCIO-SPATIAL EQUITY IN TRANSPORT SYSTEM. CASE STUDY NAIROBI CITY	11.50 (J.M)	give some of past studies in intro of gis into socio equity transport; be claear on the spatila fxts; how dertnmne who is servd by transport; check spelling in objectives; objectivves very wordy and relate to methodology; read more on GIS transport; Objectives – simplify (too verbal) – refocus Methodology – improve / indicate how data is used /analysed.; spatial fxts..; What spatial analysis with the student execute Its not say clear how the assembly index will be completed Proceed/restructure
19	ENC222-0375/2016	Jared Odiwuor Onyango	ASSESSMENT OF SOIL EROSION AND SEDIMENTAION AND THEIR IMPACTS ON SOIL QUALITY.	12.00 (N.M)	Doesn't know what are p factor in your project? Aspect of soil quality or the impact of soil loss; Tittle rephrase – remove " and mapping" Methodology – improve / indicate direction properly. Objectives - rephrase/ refocus –clean up; make work unique from last years; The work presented in the basic R.U.S.L.E equastion a basic implantation at the department Proceed/restructure
20	ENC222-0125/2017	KETER MARION JEROTICH	PREDICTION OF SOIL WORKABILITY THRESHOLD USING SOIL ORGANIC CARBON AND CLAY	12.10 (C.W)	how is workability quantified; clarify the flow chart; check the titling; need to relook the project; check on the spatial fxt in the projects; time epochs; Improve on methodology Refocus objectives Rephrase your problems statement (what is it you are addressing?); Project seems off from the expection of departmental scope Student should conduct an indepth uterature review and re-align project to course expectation; restructure
21	ENC221-0297/2016	IMUNDE Rehema Kinya	Recovery assessment of vegetation post aerial spraying after locust infestation in Wajir county	12.20 (N.A)	why the unsupervised classification; rechek the flow cahrt; how to validate; theassumption that sparying had or are other factors- separating; whats the natural rate of recovery in this arid area;check on datasets; a lot need to be done oterwise seems simplistic; Use a better case study area / Kenya maps.Improve on methodology – "arrows" Last boxes are "hanging; whats field calculator in the chart; The methodology does not outline how the locust infestation will be mapped How will the "spraying" impact nbe assessed.Restructure the project;restructure
22	ENC221-0318/2016	KAHUNYO Faith Warigia	DEVELOPING A GIS-BASED APPLICATION TO AID IN IDENTIFYING VIABLE LAND FOR AGRICULTURAL INVESTMENT.	12.30 (H.W)	will it be different suitability maps for each; is it like real time maize or cassava? Why mohoroni; whats new in the suitability modelling; maybe focus on an online app; rephrase – it is too theoretical & identify laud availability (vacant) / ownership What crop types / agricultural activities? Current laud use types of Muhoroni? The project in basic suitability analysis Student to find other ways to enhance the project addict value Probably focus should be on an A1 based app will allow use beyond the area of study. Importing data into the DB is not really enhancement

23	ENC221-0331/2016	AKELO Paul Otieno	DETECTION OF DUMPSITES USING LANDSAT 8 IMAGERY: A CASE STUDY OF JUJA WARD	12.40 (E.N)	how detect dumpsites; relationship of dumpsites and lst; the reslotion of datasets; does it detetion same as suitability? Rellok the project either geostatitcacl tool 0r smthing new; Study area, Juja – not too small spatially – for the study? Spatial resolution of laudsat 8? – not too coarse? Bring other study aspects, apart from "detection" eg effects on health e.t.c; The hypothesis may not be correct Student to review project directions much supervisor restructure
24	ENC222-0119/2017	DANTON CHERUIYOT	SPATIO-TEMPORAL ANALYSIS OF FROST AND ITS EFFECTS ON TEA PRODUCTION IN KERICHO AND NANDI COUNTIES	12.50 (F.K)	temporal aspects; how frost map come about; other parameters soil temp etc; wheres tea production whats the impact of frost; how often is frost occurrence an dhow is it a prblem; what other counter measures to frost occurrance Objectives – refine /refocus How long before occurance can it be predicted. What factors for detection; In data on frost occurrence available? What prediction with the stock use Data only available for one period Student to re-visit the project; restructure
25	ENC221-0390/2016	Ngeno Kevin Kiprotich	MANAGEMENT OF URBAN TRAFFIC CONGESTION- CASE STUDY OF NAKURU TOWN.	2.00 (J.M)	how challenging is the study? How easily can you acccomplish it seems too simplistic; what are output of 1st objective; Too basic Just suitability analysis Methodology does not reflect the objectives Student should consult widely with the supervisor Restructure the project
26	ENC222-0136/2017	MANG'OI BOBLENNY M.	ASSESSMENT OF URBAN HEAT ISLAND EFFECTS	N.M (2.10)	more work into this; check on differences of uhi and lst; topic so much looke d at prviuosly; The UHI topic in largely overdone The methodology is too basic The prediction aspect not clear Restructure the project Consult Dr. Agutu
27	EN281-3822/2015	MOGAKA Japheth Isaboke	CARBON STORAGE POTENTIAL OF PASTROL SYSTEMS OF KENYA CASE STUDY OF LAIKIPIA COUNTY	C.W (2.20)	too wordy;color on flow chart reduce legibility; how to map individual trees; whch methods for agb; project feasible but more needs to come out; How will tree cover be demonstrated How will AGB be completed Can proceed
28	EN281-5241/2014	BORU Jirma Christopher	GROUNDWATER POTENTIAL MAPPING AND LEVEL FLUCTUATIONS IN MARSABIT COUNTY USING MACHINE LEARNING MODELS	N.A (2.30)	methodology nit visible; too woddy meothodlogy; other predictors or factors; Project in feasiblie but student does not seen to have grasp of what is required Consult supervisor Proceed/restructure
29	ENC222-0130/2017	KIPYEGON AMOS	SPATIAL TEMPORALCROP WATER STRESS MONITORING FIELD SCALE USING FUSED MODIS AND SENTINEL IMAGE	F.M (2.40)	more clarity on the project and outcomes; what you mean by field scale; Clarify how the crop yields will computed; consider saptitemporal aspects; proceed
30	ENC222-0134/2017	LESOMO LOOMONI	MAPPING, MONITORING AND MANAGEMENT OF WETLAND, TANA DELTA	H.W (2.50)	check the flow chart, the end results boxes; lulc in flow chart or what are the antrhopogenic? Recheck titling; build more on this wetlands study; a good thing can come out it; connection of objective and flow/methids; The objectives are feasible but the methodology chart does not reflects what needed to be done. Consult supervisor on refine project. Proceed/restructure

31	ENC221-0293/2016	ATENYA BONVEAL MAGOSLO	ASSESSING ENVIRONMENTAL IMPACTS OF THE STANDARD GAUGE RAILWAY USING GEOSPATIAL TECHNIQUES	J.M (3.00)	how water comes in be clear; ecological aspect what is it; what you mean by ecology; Project feasible but the methodology flows does not reflect the expectation Study of water greatly seems off Consult closely with supervisor Proceed with caution
32	ENC222-0424/2017	GICHARU JOHN GATHUITA	USING REMOTE SENSING AND OBJECT-BASED ALGORITHM TO DETECT AND COUNT ELEPHANTS	F.M (3.10)	proceed
33	ENC221-0335/2016	KIPKEMOI Kevin	COMPARATIVE ANALYSIS OF METRIC MODEL,VEGETATION INDEX AND GLEAM MODEL TO ESTIMATE ACTUAL EVAPOTRANSPIRATION FOR DROUGHT MONITORING : A CASE OF TRANS ZOIA COUNTY	F.K (3.20)	precipitation? Are comparing indeices or models? Why that particular model; Proceed/restructure
34	ENC222-0122/2017	HARRIET MUTHONI	DEVELOPING A FRAMEWORK FOR UNDERGROUND UTILITY MAPPING	J.M (3.30)	where obtain the gpr data; who is going to run it; what software; why frame work means; implies surveying; what is different from surveying; check the titling; just survying might be simplistic; determine coordinate for underground; give better background; relook into this project; will you map every square; Proceed/restructure
35	ENC222-0127/2017	KIMANI MERCY NJOKI	Predicting Wheat Yields in Narok County Using Phenological Information Extracted from Vegetation Indices	N.M (3.40)	from the researrch backgrd wht would be the research gap; how does the indiecs work or bands; harvesting vs planting growing indices; look into the methods; what metrics in the objectives Proceed/restructure
36	ENC222-0116/2017	BUSOLO ELVIS TEMBEDE	DETERMINING THE SEVERITY OF FOREST FIRE AND MONITORING VEGETATION REHABILITATION	N. M (3.50)	color making flow chart not legible; how frequent is fires in the abaerdare; whats the eposchs; how different from last year work; whats with addition; may be look at the predictors of the fire; warning fire early; current trend in forest fire resaerch; Project quite simple Student to enhance the problem – probably look into prefire predictions by drivers Student to conduct an indepth review of RS-based method-ology for predicting the forest fires Consult Mr. Watene Proceed/restructure
37	ENC221-0311/2016	KIMEU Faith Mwende	SPATIO-TEMPORAL DROUGHT ANALYSIS IN ATHI BASIN, KENYA	N.A (4.00)	a lot drauoght work in kenya whats your input; whats the problem with current drought studies; is it possible to go beyond 2019; precipitation data is 50km; spei has been researchd previuosly; shift to futire prediction seasonal drouaght; Proceed/restructure new approach
38	ENC222-0118/2017	CHIRCHIR S JEPKEMBOI	OPTIMIZATION OF GROUNDWATER MONITORING NETWORKS USING REMOTE SENSING AND MULTI-PARAMETER ANALYSIS	F.M (4.10)	how potential gw used in the project; project not feasible get new project; student to visit ruiru water and have gw wells;increase scope to county; Proceed/restructure
39	ENC222-0141/2017	MWARE MORGAN INEMA	ASSESSING THE IMPACT OF FARMING CHEMICALS IN THE SPATIAL DISTRIBUTION OF PROSTATE CANCER IN MERU	H.W (4.20)	how will the cancer patient data be mapped; the proposed method for collectiing te opatient and chamical data not correct; restrucute consult supervisor; Proceed/restructure
40	ENC222-0378/2016	Suolo Arnold	EVALUATION EXTENT AND VALIDATION OF LAND DEGRADATION, A CASE STUDY OF KERIO VALLEY	C.W (4.30)	is degradation equivalent to soil loss only; how will livestock impact be calculated; whats the purpose of ndvi; consider realighning project to focus on the impact of livestock on degradation; restucture

41	ENC222-C009-0130/2016	Mary Adhiambo Omuono	LONG TERM SPATIO TEMPORAL DYNAMICS OF WATER HYACINTH BIOMASS OVER LAKE VICTORIA FROM 1990-2020 USING GOOGLE EARTH ENGINE	F.M (4.40)	how was the gap filling done; results not presented; finalise. Make checklist of all the comments (last two presentations). Respond to all comments and make the final report. Submit to the suprvisor and attach the responses to all responses to the comments
42	EN283-C009/0099/2015	KIPTUM VINCENT	ESTIMATION OF SUGARCANE YIELD USING REMOTE SENSING APPROACH CASE STUDY KIBOS SUGAR ZONE	F. K (4.50)	absent
43	EN283-0611/2015	GACHECHE SAMUEL MUNDIA	A STUDY OF RAINFALL AND SOIL MOISTURE ANOMALIES AND THEIR IMPACT IN AGRONOMY. A CASE STUDY OF TRANSZOIA COUNTY	H.W (5.00)	student need to clarify hpw sil moisture will be extracted; revise the mehtodology; proceed
44	ENC222-0357/2016	Kiplangat Bett Frankline	Long-Term Spatiotemporal Dynamics of Algal Blooms in Lake Nakuru	F.M (5.10)	Consult and proceed