Student Projects

School of Engineering

Civil and Construction Engineering

COST COMPARISON OF CONCRETE VERSUS FLEXIBLE PAVEMENT DESIGNS FOR STEEP TO ROLLING SECTIONS ALONG A104 ROAD (NAKURU – ELDORET)

Environmental Flow Assessment Using HEC-EFM and GIS: A Case Study of Kibos River

Investigation into the Cementitious Properties of a Mixture of Rice Husks Ash with Building Lime

NON-USAGE OF PEDESTRIAN FOOTBRIDGES IN KENYA: THE CASE OF UTHIRU PEDESTRIAN FOOTBRIDGE ON WAIYAKI WAY

Electrical and Information Engineering

COMBINED ECONOMIC AND EMISSION DISPATCH (CEED) CONSIDERING LOSSES USING ARTIFICIAL BEE COLONY AND PARTICLE SWARM OPTIMIZATION HYBRID WITH CARDINAL PRIORITY RANKING

ENHANCEMENT OF LOW RESOLUTION MOBILE PHONE IMAGES FOR IMPROVED INTERPRETATION OF VISUAL INFORMATION

Mechanical and Manufacturing Engineering

AN ENERGY ASSESSMENT OF THE WATER PUMPING SYSTEMS AT THE GIGIRI PUMPING STATION
A STUDY OF THERMAL ENERGY USE AT A BREWING PLANT WITH EMPHASIS ON WORT BOILING PROCESS

ENERGY SAVING OPPORTUNITIES AT TWIGA CHEMICAL INDUSTRIES LIMITED

ELECTRICAL POWER SUBSTATION ENERGY AUDIT AND THE COST- BENEFIT ANALYSIS OF AUTOMATING SWITCHING OPERATIONS DURING OUTAGES AT THE KENYA POWER COMPANY LIMITED.

ANALYSIS OF ENERGY USE AND IMPROVEMENT OPPORTUNITIES AT UNILEVER KENYA LTD

ENERGY SAVING IN ELECTRICITY DISTRIBUTION NETWORKS THROUGH THE USE OF AMORPHOUS METAL DISTRIBUTION TRANSFORMERS A case study of The Kenya Power & Lighting Company Distribution Network

ENERGY AUDIT OF LIGHTING IN EAST AFRICAN BREWERIES LTD (EABL) BREWING DEPARTMENT

END USE BASED MODEL FOR RESIDENTIAL POWER CONSUMPTION FORECASTING IN NAIROBI REGION, KENYA

WIND REGIME ANALYSIS AND RESERVE ESTIMATION (CASE STUDY: - KENYA)

RECONDITIONING OF A SHELL AND TUBE HEAT EXCHANGER TESTING RIG

Geospatial and Space technology

Development of GIS-based Tax Information System for Local Government. CASE STUDY: CENTRAL BUSINESS DISTRICT.

USING GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR INVENTORY OF SAFARICOM FOUNDATION PROJECTS. A CASE STUDY: NAIROBI COUNTY

GIS Based Cartographic Generalization in Multi-scale Environment: Lamu County
Development of a Web Based Geo-Visualization Tool for Secondary Schools in Nairobi County

A GIS BASED WATER QUALITY MANAGEMENT - A CASE STUDY OF WATER SUPPLY FOR THE CITY OF NAIROBI

Integrating Building Plans into the Existing Cadastral System

AN EVALUATION OF THE CADAstral SYSTEM IN KENYA AND A STRATEGY FOR ITS MODERNIZATION

Mobile-GIS Based Vehicle Parking Management System, a case study of Garissa Bus Park in the Garissa Urban Authority, Garissa County.

APPLICATION OF WEB-GIS IN MAPPING OLDER PERSONS CASH TRANSFER (OPCT) CASE STUDY: LANGATA CONSTITUENCY, KENYA

Using GIS to Map a Wi-Fi WAN Network in Murang'a County Case Study: Murata Sacco

MULTI-CRITERIA SUITABILITY ANALYSIS FOR OPTIMAL SITING OF A GEOTHERMAL WELL: CASE STUDY OF THE GREATER OLKARIA GEOTHERMAL AREA (GOGA)

Environmental and Biosystems Engineering

Computer Code for Selecting Appropriate Point of Use Water Filtration Treatment Technology

PEDOTRANSFER FUNCTIONS FOR SATURATED HYDRAULIC CONDUCTIVITY FOR SURFACE RUNOFF MODELING

School of The Built Environment

Architecture
URBAN PLANNING AND DEVELOPMENT OF EASTLEIGH DISTRICT COMMERCIAL CENTRE IN NAIROBI.

Real Estate and Construction Management

AN INVESTIGATION INTO CAUSES AND EFFECTS OF AGRICULTURAL LAND USE CONVERSIONS IN THE URBAN FRINGES: A Case Study of Nairobi-Kiambu Interface

A STUDY OF EFFECTIVENESS OF REGULATORY FRAMEWORK IN CONSTRUCTION INDUSTRY IN PROMOTING SUSTAINABILITY (A CASE STUDY OF NAIROBI COUNTY)


AN INVESTIGATION INTO SERVICE QUALITY DETERMINANTS AND THEIR EFFECTIVENESS IN REAL ESTATE AGENCY IN NAIROBI

A RESEARCH PROJECT ON LAND ACQUISITION FOR SELECTED ROAD PROJECTS IN KENYA

MAINTENANCE MANAGEMENT OF GREEN BUILDINGS IN NAIROBI COUNTY.

A STUDY ON THE IMPACT OF MAINTENANCE MANAGEMENT SYSTEMS ON MAINTENANCE CONDITION OF BUILT FACILITIES (CASE STUDY OF PUBLIC UNIVERSITIES IN KENYA)

CHANGE DETECTION OF INFORMAL SETTLEMENTS USING REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS: CASE OF KAWANGWARE, NAIROBI (1990-2010)

AN EVALUATION OF PERFORMANCE OF THE APPROPRIATE BUILDING MATERIALS AND TECHNOLOGIES PROMOTION IN KENYA

An Assessment of the Factors Affecting the Growth in Real Estate Investment in Kenya.
IMPACTS OF URBAN AGRICULTURE ON PHYSICAL INFRASTRUCTURE IN THE INFORMAL SETTLEMENTS CASE STUDY OF KIBERA, NAIROBI


CHALLENGES OF SLUM UPGRADING FOR URBAN INFORMAL SETTLEMENTS: CASE OF SOWETO EAST VILLAGE IN KIBERA INFORMAL SETTLEMENTS, CITY OF NAIROBI

INFLUENCE OF FIRE DISASTERS ON MITIGATION AND PREPAREDNESS IN COMMERCIAL PREMISES IN KENYA; A SURVEY STUDY OF KISUMU CBD

URBAN AGRICULTURE AS AN AUTHENTIC URBAN LAND USE IN KENYA: A CASE STUDY OF KOMAROCK ESTATE

AN EVALUATION OF THE IMPACT OF TENANT SATISFACTION ON RENT ARREARS IN PUBLIC HOUSING: A CASE OF KIBERA DECANTING SITE

ASSESSMENT OF CAUSES CREATING NONPERFORMING MORTGAGE LOANS IN KENYA.

THE SUSTAINABILITY OF HOUSING CO-OPERATIVES IN SHELTER PROVISION IN THE INFORMAL SETTLEMENTS: A CASE OF KIBERA SOWETO EAST CO-OPERATIVES.

FACTORS AFFECTING EFFECTIVE USE OF INTERLOCKING STABILIZED SOIL BLOCKS (ISSBs) FOR REDUCED COST OF SHELTER IMPROVEMENT. A CASE OF TRAINED COMMUNITY BASED ORGANIZATIONS AND INDIVIDUALS IN MOMBASA COUNTY.

INFLUENCE OF GOVERNMENT POLICY IN PROVISION OF LOW COST HOUSING IN KENYA: the case of low cost housing in Nairobi
EFFECTS OF RAPID URBANISATION ON ACCESS TO ADEQUATE HOUSING IN KAKAMEGA TOWN

AN INVESTIGATION ON THE INFLUENCE OF HOUSING MAINTENANCE-CULTURE IN THE MANAGEMENT OF PUBLIC HOUSING IN NAIROBI

SUCCESS INDICATORS OF HOUSING DEVELOPERS IN REACHING OUT TO LOW INCOME EARNERS; A CASE STUDY OF URBANIS AFRICA: JAMII BORA MAKAO.

IMPACTS OF CONSTRUCTION ON WETLANDS IN BUNGOMA TOWN

THE CHALLENGES OF HOUSING DEVELOPMENT FOR THE LOW INCOME POPULATION IN KENYA; A CASE OF ELDORET TOWN

CHALLENGES FACING HOME OWNERSHIP AMONG WOMEN IN KENYA. A CASE STUDY OF KIKUYU TOWN.

AN ASSESSMENT OF THE PROVISION OF WATER SERVICES TO INFORMAL SETTLEMENTS IN NYERI MUNICIPALITY URBAN LOCATIONS.

AN ASSESSMENT OF THE ADEQUACY OF EMPLOYER ASSISTED HOUSING MODELS IN SELECTED INSTITUTIONS WITHIN ELDORET TOWN

Urban and regional Planning

SUSTAINABLE HOUSING DENSIFICATION IN KILELESHWA: NAIROBI, KENYA

THE EFFECT OF PERI-URBAN DEVELOPMENT ON THE LIVELIHOODS OF INDIGENOUS HOUSEHOLDS: THE CASE OF LOWER KIANDANI AREA, MACAHAKOS MUNICIPALITY

THE CHALLENGES OF INFRASTRUCTURE PLANNING IN URBAN SLUMS CASE STUDY OF KOSOVO, MATHARE 4B, AND GITATHURU SLUMS IN MATHARE VALLEY

INSTITUTIONAL FRAMEWORK FOR THE MANAGEMENT OF PERIURBAN AREAS IN KENYA: THE CASE OF ONGATA RONGAI

PLANNING IMPLICATIONS OF UNCONTROLLED URBAN DEVELOPMENT IN TENA RESIDENTIAL ESTATE, NAIROBI
CHALLENGES IN PLANNING FOR ELECTRICITY INFRASTRUCTURE IN INFORMAL SETTLEMENTS: CASE OF KOSOVO VILLAGE, MATHARE VALLEY –NAIROBI


FACTORS AFFECTING THE DEVELOPMENT OF NAIROBI METROPOLITAN RAIL NETWORK

School of the Arts and Design

USING ANIMATION TO ENHANCE LEARNING: A CASE STUDY ON PRIMARY SCHOOL MATHEMATICS

APPLICATION OF AFRICAN AESTHETICS AND TYPOGRAPHICAL PRINCIPLES IN THE RE-BRANDING OF AQUARIUM BAR AND RESTAURANT IN NAIROBI

APPLICATION OF GREEN DESIGN

APPLICATION OF HUMAN-CENTERED DESIGN INSPIRED BY CONTEMPORARY DESIGN

Application of Sustainable and Universal Design Principles in Community Centres

APPLICATION OF UNIVERSAL DESIGN IN HOME FOR THE AGED

APPLICATION OF UNIVERSAL DESIGN PRINCIPLES IN THE DESIGN OF RUSINGA SCHOOL NAIROBI

CARING FOR PHYSICALLY AND MENTALLY CHALLENGED CHILDREN

CONTEMPORARY SWAHLI INSPIRED INTERIOR DESIGN FOR GUEST HOUSES

CREATION OF CONTEMPORARY INTERIORS THROUGH THE USE OF SUSTAINABLE MATERIALS
CULTURAL INFLUENCE OF THE AGIRIAMA AND ABALUHYA LIFESTYLES ON MODERN RESIDENTIAL SPACES, NAIROBI

DESIGNING FOR CHILDREN USING LEGO ART IN CREATING A USER CENTERED LEARNING ENVIRONMENT IN WARLDORF KINDERGATEN IN NAIROBI

EFFECTIVE USE OF USER CENTRED DESIGN TO CREATE A CLEAN AND EDUCATIVE ENVIRONMENT FOR CHILDREN IN HOSPITALS

GRAPHIC DESIGN APPLICATION IN IMPROVING TROPICAL HEAT'S BRAND IMAGE

INCORPORATION OF RENEWABLE MATERIALS IN AFRICAN CONTEMPORARY DESIGN OF CONVENT GARDEN HOUSE

OPPORTUNITIES FOR RE-USE OF RECYCLED BEVERAGE CARTONS IN KENYA THROUGH PRODUCT DESIGN

DESIGNING PLAY ITEMS FOR KIDS THROUGH RECYCLED PAPER

RECYCLING WASTE TYRES TO PRODUCTS

The application of Gestalt Perception Principles of Visual Communication for Fresha Dairy Products, Githunguri

THE INFLUENCE OF GRAPHIC DISPLAY FORMAT IN THE LOCAL SUPERMARKETS

UPCYCLED FASHIONABLE CLOTHING FROM MATERIALS SOURCED FROM NAIROBI FLEA MARKETS FOR YOUNG WOMEN

USE OF RECYCLED TIMBER IN RESTAURANTS