COURSE DESCRIPTION

100 LEVEL

EPM 111: PRINCIPLES OF ENVIRONMENTAL PLANNING AND MANAGEMENT

Concepts and principles. Introduction to environmental planning and management. Evolution and nature of resource utilization. Natural and human processes influencing resource use. Basic methods in planning and management of resources. Planning as a decision making process. Attributes and implications of the political and administrative environment. Planning and management of natural resources such as water, energy and wildlife.

EPM 131: PEN USE & PRESENTATION TECHNIQUES - STUDIO 1


EPM 141: POPULATION DYNAMICS AND ENVIRONMENTAL PLANNING


EPM 144: PLANNING FOR URBAN PUBLIC UTILITIES

EPM 145: INTEGRATED ENVIRONMENTAL MANAGEMENT


200 LEVEL

EPM 222: ENVIRONMENTAL PLANNING AND MANAGEMENT TECHNIQUES

Evolution of planning and management techniques. Introduction to basic techniques and procedures of environmental planning and management: environmental standards, co-ordination and control, zoning and subdivision controls. Use of legal planning tools and abatements of nuisance. Regulatory processes such as taxes, legislation and policy. Management decision models. Quantitative techniques. Meetings as human resource mobilization technique. Oral presentation techniques.

EPM 232: GEOMATIC SURVEYING & ENVIRONMENTAL MAPPING I – STUDIO 2

This unit introduces students of environmental planning and management to the tools and techniques of geomatic surveying and environmental mapping. Its content: History and development of surveying; Definition and process of surveying; Principles of surveying; Systems of referencing positions, directions and heights. Methods and types of surveying; Concept of survey measurement and errors: type and causes of errors, precision and accuracy, and error propagation. Chain surveying: principles of chain surveying; equipment; procedure of chain surveying: reconnaissance, field observations and presentation; obstacles in chain surveying and how to overcome them.

EPM 242: RESOURCE USE PLANNING

EPM 244: WASTE MANAGEMENT PLANNING


EPM 246: PUBLIC FINANCE PLANNING


EPM 251: COMPUTER APPLICATION IN ENVIRONMENTAL PLANNING AND MANAGEMENT

Introduction to computers; Application of computer in environmental planning and management. Collection and analysis of environmental planning and management data. Computer methods of analysing complex environmental planning and management problems and issues.

EPM 254: GIS & REMOTE SENSING IN ENVIRONMENTAL PLANNING AND MANAGEMENT


EPM 255: CONSERVATION AREA PLANNING & MANAGEMENT

History of conservation, theories of conservation, theories in conservation areas, types of conservation areas, characteristics of conservation areas, threats to the conservation areas, policies and legislations, effectiveness of planning and management approaches in conservation
areas, sustainable planning and management approaches of conservation, the future of conservation areas in Kenya

**EPM 256: CLIMATE CHANGE ADAPTATION AND MITIGATION**

Definition of climate change adaptation and mitigation, frameworks – UN, National policy and legislations, theoretical underpinning, approaches and methodologies, factors affecting climate change adaptation and mitigation, benefits of climate change adaptation, adaption and mitigation strategies in the built, economic and natural environment, the future adaptation and mitigations in Kenya

**300 LEVEL**

**ESU 300: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT**


**ESU 301: ENVIRONMENTAL POLICY AND LAW**


**ESU 302: APPLIED STATISTICS**


**ESU 304: RESEARCH METHODS**

ESU 305: ENVIRONMENTAL ECONOMICS


EPM 332: GEOMATIC SURVEYING & ENVIRONMENTAL MAPPING II – STUDIO 3C

This unit deepens students’ knowledge in techniques of geomatic surveying and environmental mapping. Its content: Traversing: rectangular and polar coordinates; types of traverses; procedure; detection of mistakes. Computation of areas: parcels with straight and irregular boundaries. Levelling: operational terms; instruments and procedure of levelling; Applications of levelling. Tacheometry: systems; principles in each system; procedures in stadia tacheometry. Other methods of environmental mapping: Plane table and compass surveying. Cartographic techniques; principles of craftsmanship; Map scales; Text and graphic images production; Cartographic symbols. Sources of mapping data. Map design and construction. Map elements and map compilation; Factors of map design; Map production procedure; Map revision.

EPM 341: DEVELOPMENT CONTROL IN ENVIRONMENTAL PLANNING AND MANAGEMENT


EPM 345: SPATIAL ORGANIZATION IN ENVIRONMENTAL PLANNING AND MANAGEMENT

Theories of spatial location. Spatial interaction and diffusion. Land use relationships. Analysis of spatial constraints to development. Planning and management of spatial structures and processes. Traditional and conventional approaches to the planning and management of human activities in space. Selected case studies.
EPM 371: SITE AND NEIGHBOURHOOD PLANNING - STUDIO 3B


EPM 372: RURAL PLANNING - STUDIO 3A


ESU 303 PROJECT MANAGEMENT, PLANNING & EVALUATION


EPM 381: FIELD ATTACHMENT AND PLANNING PRACTICE

The objective of field attachment to a planning office is to expose the students to professional planning practice. The attachment will last for duration of not less than eight weeks. During this time, the students will work under experienced professional planners both lecturers and field practitioners. Areas of exposure/internship shall include planning and management of environmental and specific resources, development control mechanisms, planning and management techniques, ethical and professional obligations. At the end of the field attachment and planning practice/internship, the student will be required to submit a written planning report for examination.
400 LEVEL

CORE UNITS

EPM 424: ENVIRONMENTAL ACTION PLANNING


EPM 451: PLANNING FOR RECREATION AND LEISURE


EPM 452: PLANNING AND MANAGEMENT OF HOUSING DEVELOPMENT


EPM 456: PLANNING AND MANAGEMENT OF URBAN SLUMS AND SQUATTER SETTLEMENTS


EPM 463: ENVIRONMENTAL MODELLING, ANALYSIS AND SYSTEMS MONITORING

EPM 464: DISASTER PREPAREDNESS AND MANAGEMENT

History of disasters, theories and principles of disaster management, types of disasters, causes and effects of disasters, policy and legislative frameworks, disaster management strategies, experiences in disaster management, best practices in disaster management, components of disaster preparedness and management in Kenya, case studies.

EPM 471: URBAN PLANNING - STUDIO 4A

History and theories of urbanization. Types of urban land uses. Integration of environmental aspects in planning urban land uses. Provision and management of infrastructure, amenities and services. Study and design of urban land uses. Techniques for preparation of urban master plans. Management of specific urban problems. Studio project design and report.

EPM 472: REGIONAL PLANNING - STUDIO 4B


EPM 473: URBAN DESIGN - STUDIO 4C


EPM 492: PLANNING/RESEARCH PROJECT

Each student is expected to undertake a planning/research project with staff supervision. The subject of such project/research may fall under empirical, land use/urban master plan, site/landscape design, project evaluation, feasibility study, environmental impact assessment or any other approved by the Departmental Board.