Research
And
Development
in
Mount Kenya University
Prof John H. Nderitu
Deputy Vice-Chancellor
Mount Kenya University
RESEARCH POLICY

Research and Development at MKU is guided by a Research Policy

The overall objective of the Research Policy:-

• to create uniformity and transparency in research planning, implementing, monitoring and of evaluating, and output disseminating processes
Specific research policy  Objectives include:
• To enhance research skills among staff.
• To enhance research capacity.
• To institutionalize ethical ethos in research.
• To enhance post-graduate research and training.
• To increase the quantity and relevance of research output
• To utilize research results.
• To protect intellectual rights (IPR).
• To promote corporate image and promote social responsibility.
• To ensure that research results and technologies are effectively disseminated to stakeholders
• To equip, encourage and motivate researchers and collaborators to conduct research
• To develop a framework to upscale and commercialize research outputs and innovations.
RESEARCH AREAS INCLUDE:-

1. Health Sciences
Diseases; Vectors; Safe motherhood; HIV/AIDS and STI; Herbal medicine; Food and nutrition; Reproductive health; Gender; Adolescent health; Preventive health; Drugs

2. Water and Sanitation
Integrating water resource management; Sanitation management; Waste water management; Water quality; Irrigation ; Water harvesting
3. Building & Planning:
Landscaping; Rural and urban planning; Land use planning; Construction; Roads & Housing; Safety; Aesthetic

4. Infrastructure
Transportation

5. Agriculture & food
Crop production; Livestock production; Value addition; Food security; Biotechnology; Plant science; Micro-organisms
6. Environmental health Science
   Energy; Waste management; Environmental management; Ecosystems services; Pollution; Climate change; Biodiversity; Geospatial information systems

7. Biotechnology
   Plants; Animals; Medical; Microbial; Biosafety issues; Bioprocess engineering

8. Mathematics
   Statistics and modelling; Actuarial science
9. Information and communication technology (ICT) Research

Systems engineering; ICT policy; Communication technology; Software engineering; Artificial intelligence; e-Learning, e-Commerce and e-Governance; Network security; Human computer Interface; Databases

10. Socio-Economic research

Policy issues; Trade and commerce; Leadership; Governance; Gender, youth and vulnerable groups; Finance; Intellectual Property; Cultural; Political Issues; Entrepreneurship; Technology transfer
POLICIES AND IMPLEMENTATION STRATEGIES

1. Research Funding:-
i. Multilateral and Bilateral
ii. Public- Ksh 5M/3 years; 24M/3 years; 800,000 for one year (innovation fund); 500,000 (conference)
iii. Private- post-graduate research funds
iv. MKU university funds – Ksh 5M per year; Academic staff development research funds

2. Research planning and administration:-
i. University research committee
ii. School research committees
iii. Departmental research committees
MKU RESEARCH PROGRAMMES

- Relevance - address problems and needs
- Necessity - bridge knowledge gaps that hinder technological advancement
- Efficiency - utilization of resources (time, human and materials)
- Effectiveness - potential for adoption and application of results