JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

By Prof. Mabel Imbuga
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University Vision
A University of global Excellence in Training, Research and Innovation for Development

Overview of Japan's Cooperation to JKUAT

1977: Start of the Plan
- JICA Project (On-going)
  - Renewable Energy Project (Bright Project)
    - Research, Education and Training
  - Socio-Economic Empowerment Training for Women
  - Pan African University under JKUAT (to be implemented soon)

1993: Establishment of College

Support by Japanese Gov. Thru. JICA
- Construction of classrooms and offices
- Installation of modern equipment
- Training of staff
- Support for research activities
- In-country training

Babaroa awards to excellent students now run by the university.

JICA Project (On-going) (Bright Project)

- Renewable Energy Project
  - Research, Education and Training
- Socio-Economic Empowerment Training for Women
- Pan African University under JKUAT (to be implemented soon)

JICA/JKUAT Renewable Energy Project

Bright Project
Asikaga Institute of Technology, Osaka City University

- Wind Energy
  - Efficient Rotor Blade for Small Wind Turbine, Wind Energy for Mechanical Purposes
- Solar PV
  - Kenyan Designed Solar Home System
- Biomass
  - Hyacinth as a Biogas Feedstock, Thermal Gasification of Rice Husks
- Hydro-power
  - Turbine for Small Hydro-power, Hydro Energy Conversion
- Training
  - Training of Trainers (TOT) Course on Solar PV Technology
  - Collaboration with Stakeholders

Kenya Oishii Project
Nissin Foods Holdings @ JKUAT

JKUAT Nissin Foods Limited
Babaroa award scheme to excellent students

Babaroa Trust meeting held at JKUAT

Retired president Daniel Arap Moi and Japanese experts during the JKUAT project implementation period.

Prime Minister Yashiro Mori with women farmers at JKUAT in the year 2000. Looking on is retired president Moi and top government officials.

CHALLENGES OF HIGHER EDUCATION

- Inadequate Facility for Training and Research
- Infrastructure
- Human Resource Capacity
- Brain Drain
- Staff/student Ratios
- Low Investment on Higher Education

Undergraduate Increase

College of Agriculture and Natural Resources

Student Numbers

Time (Year)
JKUAT Campuses

1. Juja - Main campus
2. Karen Campus, Nairobi
3. Nairobi Campus
4. Nairobi Central Business District
5. Mombasa Central Business District
6. Kitale
7. Kisii Town
8. Nakuru
9. Arusha (in Tanzania)

Constituent Colleges Mentored by JKUAT to University Status

1. Kimathi University College of Technology (KUCT) in Nyeri.
2. Mombasa Polytechnic University College
3. Meru University College of Technology (MUPT)
4. The Kenya Multimedia University College Nairobi.

JKUAT is currently Mentoring Constituent Colleges

1. Taita Taveta University College of Technology, Voi
2. Cooperative University College
3. Muranga University College of Science and Technology
4. Kirinyaga University College

Collaboration and Partnership

Representative from molecular biology lab, soil lab and plant breeding during the rice project workshop held in Nairobi.
AMBICTIONS OF HIGHER EDUCATION IN AFRICA

Continental Higher Education System
Harmonised Resource Utilisation
Regionalised Curriculum (eg RUFORUM)
African wide staff student Mobility

RESEARCH
- NEPAD initiatives
- African Union commission

EDUCATION
- Student staff mobility
- PAU
- INTRA-ACP
- CIUAC
- RUFORUM
- IASETE
- EUCEA
- OSEM

Facility
- ILRI BECCA Hub
- Nelson Mandela University

WHITHIN AFRICA STUDENT MOBILITY

Pan African University (PAU)

Examples of Innovation Activities at JKUAT

JKUAT Biotechnologies
Tissue-culture Aloe vera
Tissue culture banana seedlings
Oyster mushrooms

JKUAT Chemistry Technologies
Anti-termite wood paint
Herbal soap - from Aloe vera and Neem

Examples of Innovation Activities at JKUAT

Source: JKUAT Presentation PPT (Feb. 2012)
ISO 9001:2008 Certified
Examples of Innovation Activities at JKUAT

JKUAT Building Technologies

- Rammed earth constructions
- Compressed earth blocks

Source: JKUAT Presentation PPT (Feb. 2012)

Repositioning

Training, Research, Innovation, and Technology Transfer

- Health
- Food Security
- Infrastructure Development
- Environmental conservation
- Technology Incubation
- Accessible Housing
- ICT
- Water

Thank you