

## About the University

Kenya Methodist University (KeMU) is a chartered private University which has continued to play a major role in higher education sector since its establishment in 1997. The University vision, mission, philosophy and core values have provided direction in the growth and development of the university in academic, research and responsibility.

KeMU has five campuses: Main Campus - Meru, Nairobi Campus (KeMU Towers & KeMU HUB), Mombasa Campus (Narok Road, Buxton), Nakuru Campus (Mache Plaza), Nyeri Campus (Rware Building) and centres: Meru Town, Maua and Marimanti.

## Vision Statement

A leading world class university raising a new generation of transformational leaders, who are well grounded in their professional and academic expertise and committed to spiritual and ethical values.

## Mission Statement

To contribute to the transformation of our society by providing high quality education that promotes excellence in scholarship, research and selfless service to the community.

## Philosophy of the University

The University's philosophy is to foster the intellectual, spiritual and physical development of the wholesome individual in order to recognize and utilize the available opportunities for enhancement of human development with the appropriate recognition and respect for other creations. This philosophy is therefore based on the belief that God is the creator of Heaven and Earth, the fountain of knowledge, and that the application of knowledge and skills should be guided by christian values and principles.

## About the Programme

The programme of Masters of Science in Agricultural and Rural Development at Kenya Methodist University is designed to train agricultural specialists equipped with the necessary tools for adequate decision making and management in Agriculture. The programme offers four options: (i) Animal Production option and (ii) Agricultural Extension option; (iii) Horticulture option; (iv) Dryland Agriculture option; (v) Agriculture & Rural Development option; (vi) Agronomy option; and (vii) Crop Protection option.

## Programme objectives

- Training graduates to gain an understanding of the physical, biological, socio-economic and business potentials, opportunities and constraints in the agriculture sector.
- Training graduates well versed in current issues and are able to make decisions and formulate policies.

## Admission Requirements

1. Be a holder of Bachelor of Science Degree in any relevant area of training with a minimum GPA of 3.0 from any recognized University.
2. Be a holder of a Bachelor of Science Degree in any relevant area of training with a minimum GPA of 2.5 from a University recognized by the Senate and a have minimum work experience of 2 years.

## Duration of Study

The programme is designed to cover a minimum of two trimesters of course work and two trimesters of Research and Thesis writing.

## Programme Structure

### A. ANIMAL PRODUCTION

#### 1ST TRIMESTER ( CORE COURSES)

1. AGRI 570	Statistics & Biometrics	3
2. ANSC 554	Animal Ecology and Ethology	3
3. AGRI 552	Agricultural Biochemistry	3
4. ANSC 552	Non- Ruminant Nutrition	3
5. ANSC 557	Animal Nutrition & feed Analysis	3

#### 2ND TRIMESTER (CORE COURSES)

1. ANSC 553	Animal Breeding	3
2. AGRI 571	Research Design & Data Analysis	3
3. ANSC 551	Ruminant Nutrition	3
4. ANSC 550	Animal Physiology	3
5. CROP 544	Pasture & Fodder Management	3

#### ELECTIVES:

AGRI 531	Environmental Conservation & Management	
AGRI 550	Project Management & Development	

### B. AGRICULTURAL EXTENSION

#### 1ST TRIMESTER ( CORE COURSES)

1. AGRI 570	Statistics & Biometrics	3
2. AGRI 512	Rural Development	3
3. SOWA 530	Soil Fertility & Plant Nutrition	3
4. AGRI 590	Adult Education	3
5. CROP 544	Pasture & Fodder Management	3

#### 2ND TRIMESTER (CORE COURSES)

1. ANSC 501	Livestock Production Systems	3
2. AGRI 571	Research Design & Data Analysis	3

3. AGRI 511	Agricultural Food Policy	3
4. CROP 541	Crop Production Systems	3
5. AGRI 550	Project Management & Development	3
6. AGRI 570	Statistics & Biometrics	3

#### ELECTIVES:

NARE 562	Agro forestry	
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### C. HORTICULTURE

#### 1ST TRIMESTER ( CORE COURSES)

1. AGRI 570	Statistics & Biometrics	3
2. CROP 552	Plant Biochemistry	3
3. CROP 540	Plant Cell And Tissue Culture	3
4. SOWA 530	Soil Fertility & Plant Nutrition	3
5. CROP 551	Crop Physiology	3

#### 2ND TRIMESTER ( CORE COURSES)

1. AGRI 571	Research Design & Data Analysis	3
2. CROP 543	Green House Management	3
3. CROP 554	Post Harvest Technology	3
4. AGRI 000	Agricultural Biotechnology	3
5. CROP 531	Plant Breeding	3

#### ELECTIVES:

AGRI 531	Environmental Conservation & mgt	
NARE 561	Water Harvesting & Irrigation	
AGRI 521	Farm Structures	
SOWA 531	Soil & Water Conservation	

### D. DRYLAND AGRICULTURE

#### 1ST TRIMESTER (CORE COURSES)

1. AGRI 570	Statistics & Biometrics	3
2. SOWA 530	Soil Fertility & Plant Nutrition	3
3. AGRI 540	Principles of Dryland Farming	3
4. CROP 544	Pasture & Fodder Management	3
5. CROP 542	Crop Stress Physiology	3

#### 2ND TRIMESTER (CORE COURSES)

1. AGRI 571	Research Design & Data Analysis	3
2. NARE 561	Water Harvesting & Irrigation	3
3. ANSC 501	Livestock Production Systems	3
4. ANSC 557	Animal Feeding & Nutrition	3
5. SOWA 531	Soil & Water Conservation	3

#### ELECTIVES:

AGRI 531	Environmental Conservation & Mgt	
NARE 563	Disaster Management	

### E. AGRICULTURAL & RURAL DEVELOPMENT

#### 1ST TRIMESTER (CORE COURSES)

1. AGRI 570	Statistics & Biometrics	3
2. AGRI 544	Pasture & Fodder Management	3
3. AGRI 512	Rural Development	3