



KENYATTA UNIVERSITY

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology is part of School of Pure and Applied Sciences and offers courses to students from the School of Medicine, School of Agriculture and Enterprise Development, School of Applied Human Sciences, School of Education and School of Environmental Studies.

External Links

The Department has research collaborations with several research institutions that facilitate advanced joint research activities. Such collaborations create support opportunities for both undergraduate and postgraduate students. Among these are Kenya Medical Research Institute (KEMRI), Kenya Bureau of Standards (KEBS), Kenya Agricultural and Livestock Research Organisation (KALRO), Kenya Forestry Research Institute (KEFRI), International Livestock Research Institute (ILRI), Institute of Primate Research (IPR), World Agroforestry Centre (ICRAF) and other universities.

Academic staff

The department has well qualified academic staff in the following areas of specialization:

- Agricultural and Soil Microbiology
- Aquatic Microbiology
- Bacteriology
- Bioinformatics
- Environmental Microbiology
- Food Microbiology
- Industrial Microbiology
- Medical Microbiology
- Microbial biotechnology
- Microbial ecology
- Microbial genetics
- Mycology

- Virology

Research activities

Members of staff are currently involved in research in the following areas:-

- Agricultural Microbiology
- Immunological aspects of tropical diseases
- Infectious diseases
- Molecular Microbiology
- Mycology
- Plant extracts and their microbial properties
- Plant-microbe interactions
- Role of microorganisms in food and food products
- Role of microorganisms in the environment
- Soil Microbiology
- Virology

Training

The Department trains graduate students at both MSc. and Ph.D. levels in the aforementioned areas of specialization. Moreover, the Department offers a B.Sc. course in Microbiology.

Mode of study and duration

The department offers full time, Institution Based and Open, Distance and e-Learning mode of study. Undergraduate programmes last four academic years while M.Sc. and Ph.D. programmes take two and three academic years respectively.

Resources

Teaching and research laboratories are available in the department or related departments. Internet facilities are also available for research, communication and accessing online information.

Teaching methods include lectures, practicals, group presentations and field work. Resources are also sourced from institutions which have signed a memorandum of understanding with the University.

Career Prospects

Our graduates are marketable in National and international Research institutions, Pharmaceutical firms, Biotechnology industries, Food industries, Institutions of Higher Learning and Health services laboratories.

Undergraduate Programme

The Department of Microbiology offers undergraduate programme leading to the degree of Bachelor of Science (Microbiology). The programme involves extensive teaching, intensive practical work and optional research project in the final year.

Admission Criteria

A student wishing to study B.Sc. (Microbiology) must satisfy the minimum University requirements and School of Pure and Applied Sciences regulations. To be admitted, a student must have C+ in Biology or Biological Sciences, **PLUS** at least a C+ in ANY TWO of the following subjects; Physical Sciences, Physics, Chemistry, Geography and Agriculture, **OR**, at least 2 principal passes one which must be in Biology in the Kenya Advanced Certificate of Education (KACE), **OR**, C plain in KCSE (or Division III KCE/EACE) with a credit pass at diploma level in any of the following areas: education (Biology), Applied Biology, Agriculture, or Microbiology from an institution recognized by the University Senate.

Postgraduate Programmes

Postgraduate programmes are available for the degrees of Master of Science (M.Sc.) and Doctor of Philosophy (Ph.D.). The Master of Science Programmes are available in the following areas of specialization:

M.Sc. (Medical Microbiology)

M.Sc. (Environmental Microbiology)

M.Sc. (Industrial Microbiology)

For admission to a Master of Science programme, one should have achieved Second Class honours (Upper Division) **OR** Second Class (Lower Division) with at least two years work experience in one's area of specialization.

For admission to the Ph.D. programme, one should be an M.Sc. (in Microbiology or in related field) degree holder from Kenyatta University or from any other University recognised by the University Senate.

LOCATION

The Department of Microbiology is located in former Moi Library building, 1st Floor Rooms L36/L38

For further information please contact:

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