The Department of Plant and Microbial Sciences is part of the School of Pure and Applied Sciences and also offers units to students from the School of Education and School of Applied Human Sciences.

External Links
The Department has research links with several local and international research institutions that facilitate staff scientific visits for advanced research and joint research activities. Such collaborations create opportunities for postgraduate students support. Staff members are currently involved in research in the following areas:
- Aquatic Ecology
- Genetic Transformation
- Tissue Culture
- Biological Nitrogen Fixation (BNF)
- Plant Taxonomy
- Molecular Biology
- Plant Pathology
- Plant Extracts and their Microbial Properties
- Water Quality and Wastewater Reuse

Academic staff and specialization
The department has well qualified academic staff, covering several areas of specialization such as Plant Physiology and Biochemistry, Ethnobotany, Plant Breeding, Plant Pathology, Genetics, Microbiology, Plant Taxonomy and Biosystematics, Molecular Biology, Plant Ecology, Limnology, Conservation, Economic Botany and Plant Biotechnology. There are 6 professors, 10 Ph.D. holders and 3 M.Sc. holder.

Departmental Specialty
In addition to training competent high school teachers of biology under the B.Ed. Science Programme, PMS department offers three unique degree programmes in areas of Science, Microbiology and Conservation Biology. These programmes are regularly reviewed to offer students a competitive edge in the job marked.

Undergraduate Programmes
The Department of Plant and Microbial Sciences offers undergraduate programmes leading to the degrees of:
1. Bachelor of Science (B.Sc.)
2. Bachelor of Science (Microbiology)
3. Bachelor of Science (Conservation Biology)
4. Bachelor of Education (Science)

The programmes cover pure and applied aspects of PMS and include an optional research in the final year.

Admission Criteria
A student wishing to pursue any of degree programmes offered in PMS department must satisfy the minimum university requirements and School of Pure and Applied regulations. 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 principals passes one which must be 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 a relevant area of study institution recognized by the University Senate.

Mode of study and duration
The department of Plant and Microbial Sciences offers full time, School Based and Opening Learning mode of study. All programmes last four academic years. By using the optional additional period of study during the long vacations it is possible for the students to complete these programmes in three years.
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. (Developmental Botany)
- M.Sc (Ethnobotany)
- M.Sc (Genetics)
- M.Sc (Microbiology)
- M.Sc. (Plant Biochemistry and Physiology)
- M.Sc. (Plant Ecology)
- M.Sc. (Plant Pathology)
- M.Sc. (Plant Taxonomy)

Ph.D. programmes are available in most areas of PMS, depending upon the availability of specialized staff for supervision.

Mode of study and duration
The M.Sc. programme consists of nine months of course work with written examinations, followed by one year of research, at the end of which a thesis is submitted for examination. The Ph.D. programme involves three years of research which a thesis is submitted for examination.

Resources
The Department has Greenhouse, Botanical garden Herbarium, departmental library, teaching laboratories, and research laboratories such as Tissue Culture, Microbiology and Aquatic Sciences Laboratory.

Student Profiles
Qualified students from high school and diploma colleges choose courses in our department to gain hands on experience in theory and practice in different fields of PMS.

Career Opportunities
Career opportunities in Plant and Microbial Sciences graduates are diverse and some of them are outlined below:

- Teaching/Lecturing Secondary schools, Polytechnics, Teacher Training Colleges, Universities.
- Horticulturalists/Ecologists/Taxonomists such as institutions as National Museums of Kenya, KEFRI and some NGOs.
- Physiologists/Plant Physiologists/Plant Pathologists/Plant Ecologists research institutes such as KARI, KEMRI, NEMA and others.
- Specialists in the science fields of plant taxonomy, ecology and range management in regional, national and private conservation organizations.
- Food scientists/Plant Pathologists/Plant Physiologists/Microbiologists in industries dealing with herbicides, pesticides, fungicides, fertilizers, brewing, food and pharmaceutics and plant propagation.
- Environmental experts in consulting firms focusing on botanical and ecological issues.
- Plant Geneticists/Plant Breeders/Plant Tissue Culture Experts in research institutes such as KARI, Coffee Research Foundation, Tea Research Foundation, Pyrethrum Board of Kenya and private horticulture firms.
- Environmental Microbiologists in food industry, water and sewerage works and research institutes such as KEMRI, KERI, KETRI, ICIDE, ILRI etc.

Location
The Department of Plant and Microbial Sciences is situated on the West side of the Main Campus. To reach the department from the Main Gate one should take the following well labeled roads: Kenya Drive-Church Road - Harambee Hall Road – Chapel Road, Ngong Drive and Estate Close. The department is located in a cluster of buildings opposite the Transport Unit.

CONTACTS
The Chairman
Department of Plant and Microbial Sciences
Kenyatta University
P.O. Box 43844, 00100
NAIROBI, KENYA
Tel. 020-8710901 – 12 Ext 57177
Email: chairman-pms@ku.ac.ke
Website: www.ku.ac.ke

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