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| ABM 8202 | Programme Planning and Management | 2 |
| CRS 9201 | Applied Molecular Biology and <i>In vitro</i> Techniques | 2 |
| CRS 9202 | Quantitative Genetics | 2 |
| Electives | | |
| Total required CU | | 14 |

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| Electives | | |
| CRS 9203 | Bioinformatics and Functional Genomics | 2 |
| CRS 9204 | Advanced Insect Pest Management Systems | 2 |
| CRS 9205 | Disease Management and Crop Loss Assessment | 2 |
| SOS 9201 | Soil-Plant-Atmosphere Relations | 2 |
| Year 2 to 3: | | |
| CRS 9207 | Dissertation (Submission and Defence) | 10 |
| | Total Credit Units | 40 |

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE FACULTY OF AGRICULTURE

1. Before presenting themselves for the degree of Doctor of Philosophy in the Faculty of Agriculture, candidate must:-
 - (a) Have taken the degree of Master of science in Agriculture or Master of Arts of any of the Universities of East Africa not less than two years previously.
 - (b) Have taken the degree of Bachelor of Science in Agriculture or Bachelor of Arts or Bachelor of Veterinary Science of any of the Universities of East Africa not less than three years previously, and whom the Senate has specially exempted from the Master's examination;*
 - (c) Be a graduate of any other recognized university who has been admitted to the status of Master of Science (Agric.) in the University, and who has held the qualification by virtue of which such admission has been granted for not less than two years, alternatively he/she must have been admitted to the status of Bachelor of Science (Agric.) in the University and has held the qualification by virtue of which such admission has been specially exempted by the Senate from the Master's examination.*
 - (d) Be eligible to upgrade Master of Science Registration to Doctor of Philosophy. In cases where a candidate wishes to upgrade his registration from Msc. to PhD; an application should be sent to the Senate via the Faculty Board and Higher Degrees Committee. Such an application must be accompanied by a brief supporting statement from the supervisor and must be made (a) not less than 12 months after the effective date of registration and (b) not less than 12 months before the candidate wishes to submit the Ph.D thesis.
- The above are University requirements for upgrading. In addition, the Faculty Board of Post-graduate Studies can recommend upgrading only if:
- (i) The candidate satisfies internal examiners appointed by the Board, in subjects specified by the Board, that his knowledge and understanding in the field of his studies and related fields are at a level commensurate with the Ph.D.
 - (ii) The original outline of research, or an amended version of such an outline, lends itself to Ph.D. level research.
2. A candidate for the degree shall be required to pursue at the University or at some other place approved by the Senate for the purpose, an approved

- course of special study or research on some subject connected with the fields of Agriculture or Agricultural Sciences.
3. Candidates who spend the major part of their study period away from the University will be expected to maintain a close connection with the Faculty of Agriculture which has provided or appointed the supervisor.
 4. The candidate shall also be subject to such supplementary regulations as may from time to time be determined by the Board of the Faculty of Agriculture and approved by the Academic Board.

REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE IN AGRICULTURE

1. The following shall be eligible for the degree of Doctor of Science in Agriculture:
 - (a) Any Bachelor of Arts or Bachelor of Science or Bachelor of Science in Agriculture or Bachelor of Veterinary Science of the University of not less than six years' standing;
 - (b) Any graduate of another recognized university who has been admitted to the status of Bachelor of Arts or Bachelor of Science, or Bachelor of Science in Agriculture in the University and who has held the qualification by virtue of which such admission has been granted for not less than six years.
2. A candidate for the degree shall be required to submit for approval of the Senate outstanding published work on some subject or subjects connected with the agricultural sciences, and falling within the scope of the studies represented in the University.
3. No publications shall be accepted which are not works of distinction in their field and which do not make important contributions to learning.
4. Every submission for the degree must be accompanied by a declaration on the part of the candidate satisfactory to the Senate, stating that it has not been offered for a degree in any other University

MAKERERE UNIVERSITY AGRICULTURAL RESEARCH INSTITUTE KABANYOLO (MUARIK)

The Institute is situated 17 km North of Kampala. Access to the Institute is along Gayaza road.

The objectives of MUARIK are:

- (a) To provide the necessary facilities for practical teaching and demonstration for students in the Faculty of Agriculture.
- (b) To provide facilities for research projects.
- (c) To provide data on types of small and large scale farming in the "fertile Lake Victoria crescent" as well as basic husbandry information which might be applicable in the East African region.
- (d) To evolve an integrated farming system which can also afford opportunities for teaching aspects of farm management.
- (e) To create a focal point of contact with farmers, field officers, teachers, scientists and others connected with the agricultural industry in East Africa and elsewhere.

The Institute also benefits from being close to other institutions. It is adjacent to Gayaza High School for girls, teaching agriculture and nutritional science with its own farm. Six kilometres away lie Namulonge Research Station and the headquarters of the Special Development Section of the Ministry of Agriculture, at Namalere are situated nearby.

Kabanyolo is a mixed farm with some specialized areas such as floriculture and horticulture being vigorously pursued. The Institute is divided roughly into three rotation areas: (1) Kyetume ridge on the Eastern boundary, mainly a continuous arable rotation area with three small holdings. Agro-forestry and soil conservation experiments are on the steeper vast slope of the ridge. The valley between Kyetume and Kabanyolo has been reclaimed and is being developed as an intensively farmed horticultural and floricultural area; (2) Eastern slope of Kabanyolo ridge is the arable-ley rotation

area; (3) The Western slope of Kabanyolo ridge below the public road is mainly long term pasture grass area. The swamp below it is being reclaimed for paddy rice and other crops suitable for surface irrigation.

The top of Kabanyolo ridge largely built up with administrative and residential houses, lecture rooms and laboratories. Livestock buildings are found at the Northern end of this ridge.