

Master of Science in Plant Breeding

CROP AND SOIL SCIENCES DEPARTMENT

www.luanar.ac.mw/aquafish

PROGRAMME DESCRIPTION

The MSc Programme in Plant Breeding equips graduates with modern skills and knowledge for developing crop cultivars addressing challenges in sustainable crop production. Through theoretical and practical learning, students gain expertise in plant genetics, breeding methodologies, and biotechnological tools. Hands-on training prepares them for careers in plant breeding research, agricultural biotechnology, seed industry, and academia, contributing to global food security and agricultural sustainability.

CAREER PROSPECTS:

Plant Breeder, Agricultural Biotechnologist, Seed Production Manager, Crop Improvement Scientist, Research Scientist, Agronomic Consultant, Agricultural Extension Officer, Academic Lecturer, Biotechnology Entrepreneur, Agricultural Policy Analyst

PROGRAMME STRUCTURE

MSc Plant Breeding is an interdisciplinary course running for 2 years and consists of various subjects through which students learn about a diverse assortment of fields related to variety development. The program also includes practical experiences and research.



PROGRAMME COURSES

Year 1 Courses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	CSS75001	Plant Physiology and Biochemistry	Core
2	CSS75100	Scientific Writing and Communication	Core
3	CSS75101	Agrometeorology and Climatology	Elective
4	CSS75101	Research Methods in Agriculture	Elective
5	FOR75106	Geographic Information System Applications in Natural Resources Management	Elective
6	HOR75102	Plant Morphogenesis and Development	Elective
7	HOR75204	Plant Tissue Culture and Application	Elective
8	SSY75100	Seed Systems Seminar I	Core
9	SSY75102	Seed Health	Core
10	SSY75103	Seed Physiology and Production Technology	Core
11	STA75101	Biometry I	Core
	SEMESTER II COURSES		
1	CPN75204	Integrated Pest Management	Core
2	CSS75008	Advanced Crop Ecology	Elective
3	SSY75200	Seed Systems Seminar II	Core
4	SSY75201	Seed Enterprise Development	Core
5	SSY75202	Advances in Seed Production, Processing and Storage	Core
6	SSY75203	Seed Systems and Policy Analysis	Core
7	STA75201	Biometry II	Elective

Year 2 Courses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	SSY75908	Plant Breeding Thesis Proposal	Core
2	SSY75909	Plant Breeding Thesis Report	Core

Fees Structure

MSc (International)

Category	Item	Year I ($)	Year 2 ($)	Total ($)
Administra-tive Fees	Application	20.00		20
	Registration	25.00	25.00	75
	Library	100.00	100.00	300
	Medical	245.00	245.00	735
	Examination	65.00	65.00	195
	Sub-Total	455.00	435.00	1325
Tuition fees	Tuition Fee (Average of Local and regional Universities)	2,619.00	2,619.00	5,238.00
	External and Internal examiner's fees and postage	250.00	250.00	500.00
	Supervisory Fees	250.00	250.00	500.00
	Sub-Total	**3,574.00**	**3724.00**	**7,088.00**
Research cost	Research	2,200.00	2,200.00	4,400.00
Student Welfare (7)	Settling-in allowance	95.00		95.00
	Setting-out allowance		95.00	95.00
	Holiday Allowance	60.00	60.00	120.00
	Personal Allowance	2,835.00	2,835.00	5,670.00
	Sub-Total	2,990.00	2,990.00	5,980.00
	GRAND TOTAL	**9,244.00**	**9,224.00**	**18,468.00**

MSc (Local)

Category	Item	Year I ($)	Year 2 ($)	Total ($)
Administrative Fees	Application	20		20
	Registration	25	25	50
	Library	100	100	200
	Medical	245	245	490
	Examination	65	65	130
	Sub-Total	455	435	890
	Tuition Fee (Average of Local and regional Universities)	1,545.00	1,565.00	3,110.00
	External and Internal examiners fees and postage	250	250	500.00
	Supervisory Fees	250	250	500.00
	Sub-Total	2,500.00	2,500.00	5,000.00
Research costs	Research	2,200.00	2,200.00	4,400.oo
Student Welfare	Settling-in allowance	95		95.00
	Settling-out allowance		95	95.00
	Holiday Allowance	60	60	120.00
	Personal Allowance	2,835.00	2,835.00	5,670.00
	Sub-Total	2,990.00	2,990.00	5,980.00

ENTRY REQUIREMENTS:

A candidate shall either hold a relevant bachelor's degree from Lilongwe University of Agriculture and Natural Resources or a qualification from an approved institution of higher learning deemed to be equivalent to a BSc degree from Lilongwe University of Agriculture and Natural Resources. A candidate shall not be admitted to an MSc degree unless he/she has obtained at least a 2.6 GPA or equivalent aggregate marks in undergraduate studies.

CURRICULUM DELIVERY:

The programme will be delivered through face-to-face mode.

LOCATION OF PROGRAM:

LUANAR Bunda College

TECHNIQUES OF DELIVERY:

Lectures and demonstrations, Laboratory classes, Industrial visits, Tutorials, Seminars, Assignments and exercises, Process design, Research projects (coursework) and Work Integrated Learning



a University with endless possibilities

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