

Master of Science in Soil Sciences

CROP AND SOIL SCIENCES DEPARTMENT

www.luanar.ac.mw/aquafish

PROGRAMME DESCRIPTION

The MSc in Soil Science program emphasizes skill development in soil and water resource management. It equips students with planning, application, and management expertise. The curriculum covers soil quality assessment, sustainable management strategies, and emerging technologies. Graduates are prepared to address soil degradation and contribute to sustainable land management practices.

CAREER PROSPECTS:

Soil scientist, Environmental consultant, Land use planner, Agricultural extension officer, Soil conservationist, Watershed manager, Research scientist, Government agency professional, Agriculture industry specialist, Environmental consulting firm employee and Natural resource management specialist.

PROGRAMME STRUCTURE

The MSc Soil Science combines a core curriculum of soil science courses with a wide range of electives focusing on agronomy, seed science, crop protection, and plant breeding. This flexibility in electives allows students to create a curriculum uniquely tailored to their career goals and provides diverse opportunities to explore agriculture and leading-edge agricultural research. Students can also incorporate a variety of field trips, experiential learning in the workplace, and independent study into their program of studies.



PROGRAMME COURSES

Year 1 Courses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	CSS75001	Plant Physiology and Biochemistry	Elective
2	CSS75101	Research Methods in Agriculture	Core
3	FOR75106	Geographic Information System Applications in Natural Resources Management	Elective
4	NRM 513	Climate Change, Agriculture and Development	Core
5	AGR75105	Soil Fertility Management for Sustainable Agriculture	Core
6	CSS75101	Agrometeorology and Climatology	Elective
7	GED75201	Gender, Agriculture and Climate Change	Elective
8	AAE 553/ CAEE 5134	Farming Systems and Sustainable	Elective
9	CSS75101	Research Methods in Agriculture	Core
10	AGF75101	Agroforestry Technologies and Practices	Elective
	SEMESTER II COURSES		
1	CSS75008	Advanced Crop Ecology	Elective
2	SSC75200	Soil Science Seminar II	Core
3	SSC75201	Digital Soil Mapping	Elective
4	SSC75204	Soil Fertility and Plant Nutrition	Core
5	SSC75203	Soil Microbiology and Ecology	Core
6	SSC75205	Soil Survey and Land Productivity	Elective
7	SSC75206	Soil Pollution and Remediation	Core
8	Technologies	Elective	Elective

Year 2 Courses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	SSC75908	Soil Science Thesis Proposal	Core
2	SSC75909	Soil Science Thesis Report	Core

Fees Structure

MSc (International)

Category	Item	Year I ($)	Year 2 ($)	Total ($)
Administrative 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 degree of 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 unless s/he has obtained at least 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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