

PhD in Aquaculture and Aquatic Resources By Research

DEPARTMENT OF AQUACULTURE AND FISHERIES SCIENCE

www.luanar.ac.mw/aquafish

PROGRAMME DESCRIPTION

The PhD program in Aquaculture and Aquatic Resources by research is designed to advance knowledge and expertise in the field of aquaculture and aquatic resources management. This program offers candidates the opportunity to conduct in-depth research on topics related to sustainable aquaculture practices, aquatic ecology, fisheries management, and aquatic resource conservation. Under the guidance of experienced supervisors, students will explore innovative solutions to address pressing challenges in aquaculture and aquatic resource management. Through rigorous research, candidates will contribute to the development of scientific knowledge and practical solutions to enhance the sustainability and resilience of aquatic ecosystems and aquaculture industries.

CAREER PROSPECTS:

Academic Researcher, Aquaculture Consultant, Fisheries Scientist, Aquatic Resource Manager, Environmental Policy Analyst, Aquatic Biologist, Aquaculture Farm Manager, Government Regulatory Officer, Aquatic Health Specialist, and Marine Conservationist

PROGRAMME STRUCTURE

This is a three-year programme by research. The programme structure is aimed at tracking students as they propose and conduct research. The courses give milestones for concept notes, proposals, manuscripts, and thesis.

PROGRAMME COURSES

Year 1 Courses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	AAR 81101	Aquaculture and Aquatic Resources Research I	Core
2	AFS 71102	Biostatistics and Research methods	Elective
3	AFS 71103	Fish Nutrition and Feed Technology	Elective
4	AFS 71105	Aquaculture Production Systems and Engineering	Elective
5	AFS 71106	Bioinformatics	Elective
6	AFS 71107	Fish Breeding and Hatchery Management	Elective
7	AFS 71108	Fish Health, Welfare Management and Biosecurity	Elective
8	AFS 71109	Fish Physiology and Bioenergetics	Elective
9	AFS 71110	Fish Processing and Quality Management	Elective
10	AFS 71113	Integrated Agriculture and Aquaculture Systems	Elective
11	AFS 71114	Integrated Coastal Resource Management	Elective
12	AFS 71115	Limnology and Oceanography	Elective
13	AFS 71116	Sustainable Fisheries and Ecosystems Management	Elective

PROGRAMME COURSES

Year 1 Courses

	SEMESTER II COURSES		
1	AAR 82201	Aquaculture and Aquatic Resources Research IV	Core
2	AFS 71202	Stock Assessment and Fisheries Management	Elective
3	AFS 71203	Molecular Biology and Genomics	Elective
2	AFS 71204	Biotechnology Applications in Aquaculture	Elective
3	AFS 71205	Data Science in Fisheries	Elective
4	AFS 71206	Fish Biodiversity and Conservation	Elective
5	AFS 71207	Fish Population Dynamics, Stock Assessment and Ecosystems	Elective
6	AFS 71208	Fish Taxonomy and Systematics	Elective
7	AFS 71209	Fisheries and Aquaculture Business Management	Elective
8	AFS 71210	Fisheries and Natural Resource Economics	Elective
9	AFS 71211	Fisheries Bio-economics, Theory Modeling and Management	Elective
10	AFS 71212	Fisheries Ecology	Elective
11	AFS 71213	Fisheries Value Chains and Marketing	Elective
12	AFS 71214	Population Genetics	Elective
13	AFS 71215	Water Quality Analysis and Management	Elective

Year 2 Ccourses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	AAR 82101	Aquaculture and Aquatic Resources Research III	Core
	SEMESTER II COURSES		
1	AAR 82201	Aquaculture and Aquatic Resources Research IV	Core

Year 3 Ccourses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	AAR 83101	Aquaculture and Aquatic Resources Research V	Core
	SEMESTER II COURSES		
1	AAR 83101	Aquaculture and Aquatic Resources Research V	Core

Fees Structure

PhD (International)

Category	Item	Year I ($)	Year 2 ($)	Year 3 ($)	Total ($)
Administrative Fees	Application	20			20
	Registration	25	25	25	75
	Library	100	100	100	300
	Medical	245	245	245	735
	Examination	65	65	65	195
	Sub-Total	455	435	435	1325
Tuition fees	Tuition Fee (Average of Local and regional Universities)	2,685.00	2,705.00	2,705.00	8,095.00
	External and Internal examiner's fees and postage	210	210	210	630.00
	Supervisory Fees	250.00	250.00	250.00	750.00
	Sub-Total	**3,600.00**	**3,600.00**	**3,600.00**	**10,800.00**
Research cost	Research		4,400.00	4,400.00	8,800.00
Student Welfare (7)	Settling-in allowance	95			95
	Setting-out allowance		95	95	190
	Holiday Allowance	60	60	60	180
	Personal Allowance	2,835.00	2,835.00	2,835.00	8505
	Sub-Total	2,990.00	2,990.00	2,990.00	8970

PhD (Local)

Category	Item	Year I ($)	Year 2 ($)	Year 3 ($)	Total ($)
Administrative Fees	Application	20			20
	Registration	25	25	25	75
	Library	100	100	100	300
	Medical	245	245	245	735
	Examination	65	65	65	195
	Sub-Total	455	435	435	1325
	Tuition Fee (Average of Local and regional Universities)	2,085.00	2,105.00	2,105.00	6,295.00
	External and Internal examiners fees and postage	210	210	210	630.00
	Supervisory Fees	250.00	250.00	250.00	750.00
	Sub-Total	3,000.00	3,000.00	3,000.00	9,000.00
Research costs	Research		4,400.00	4,400.00	8,800.00
Student Welfare	Settling-in allowance	95			95
	Settling-out allowance		95	95	190
	Holiday Allowance	60	60	60	180
	Personal Allowance	2,835.00	2,835.00	2,835.00	8505
	Sub-Total	2,990.00	2,990.00	2,990.00	8970

ENTRY REQUIREMENTS:

Applicants into this programme should have an MSc in Aquaculture, Fisheries, or related field from an accredited university with a good research background. Applicants should have strong passes in biometry, research methods, or related courses at the Master of Science level. Applicants should have a very good background in English. They are also supposed to have a minimum of two years' working experience in the field of aquaculture, fisheries, aquatic resources, or related field.

CURRICULUM DELIVERY:

The curriculum will be delivered through blended learning, that is, use of face-to-face mode of delivery and online teaching using the MOODLE and other platforms recommended by the University.

LOCATION OF PROGRAM:

LUANAR Bunda College

TECHNIQUES OF DELIVERY:

The most common method of teaching will be through tutorials and seminars to address areas identified by students that need strengthening to adequately carry out their research.



a University with endless possibilities

Africa Center of Excellence in Aquaculture and Fisheries Science – LUANAR

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