

PhD in Fisheries and Ecosystems Management by Research

DEPARTMENT OF AQUACULTURE AND FISHERIES SCIENCE

www.luanar.ac.mw/aquafish

PROGRAMME DESCRIPTION

The PhD in Fisheries and Ecosystems Management by Research is an advanced program focusing on sustainable fisheries and ecosystem conservation. Candidates conduct independent research under faculty guidance, culminating in a dissertation. Graduates are equipped for careers in academia, research, and environmental management, contributing to the sustainable management of aquatic ecosystems.

CAREER PROSPECTS:

Academic Researcher/Professor, Government Scientist/ Policy Advisor, Non-Profit Organization Specialist, Consultant, Industry Research Scientist, Policy Analyst, International Organization Specialist, Entrepreneur

PROGRAMME STRUCTURE

The programme spans three years and is research-oriented, designed to guide students through the process of proposing and conducting research. The courses within the program serve as benchmarks for developing concept notes, proposals, manuscripts, and a thesis.

PROGRAMME COURSES

Year 1 Courses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	FEM 81101	Fisheries and Ecosystems Management 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

#	Course Code	Course Name Course	Type
	SEMESTER II COURSES		
1	FEM 81201	Fisheries and Ecosystems Management Research II	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	FEM 82101	Fisheries and Ecosystems Management Research III	Core
	SEMESTER II COURSES		
1	FEM 82201	Fisheries and Ecosystems Management Research IV	Core

Year 3 Ccourses

#	Course Code	Course Name Course	Type
	SEMESTER I COURSES		
1	FEM 83101	Fisheries and Ecosystems Management Research V	Core
	SEMESTER II COURSES		
1	FEM 83101	Fisheries and Ecosystems Management 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 to this program should have an MSc in Aquaculture, Fisheries, or a related field from an accredited university. Applicants must demonstrate proficiency in biometry, research methods, or similar courses at the Master of Science level. They should also have successfully completed an English course at the graduate level and possess a minimum of two years of relevant work experience in aquaculture, fisheries, aquatic resources, or a related field.

CURRICULUM DELIVERY:

The programme is by research. Students will work with their supervisors to implement the curricum. Contact can be face-to-face or online.

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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