Sustainable Aquaculture Postgraduate Certificates Invertebrates or Vertebrates

Programme Requirements

Sustainable Aquaculture (Invertebrates) - PG Cert

BL4801 (10 credits) and BL4803 (10 credits) and BL5806 (10 credits) and BL5808 (10 credits) and

20 credits from Module List: BL5802, BL5804, BL5805

Sustainable Aquaculture (Vertebrates) - PG Cert

BL4801 (10 credits) and BL4804 (10 credits) and BL5807 (10 credits) and BL5809 (10 credits) and

20 credits from Module List: BL5802, BL5804, BL5805

Compulsory modules:

BL4801 Aquaculture and Fisheries							
	SCOTCAT Credits:	10	SCQF Level 10	Semester:	Distance learning		
	Planned timetable:	To be arranged.					

This module provides an introduction to the global importance of aquaculture with fisheries industries worldwide. The module will compare both aquaculture and fishing industries with terrestrial, agricultural sources of food production. The global markets for aquaculture, fisheries and agricultural products will be assessed. The environmental interactions of aquaculture will be discussed with relation to the definition of, and development of, sustainable aquaculture practices. The principles of developing sustainable aquaculture in different global environments/conditions will be discussed.

Programme module type: Compulsory for all Sustainable Aquaculture Postgraduate Programme Optional as a stand alone module.				
Learning and teaching methods and delivery:	Weekly contact: Distance Learning: 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).			
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Dr N Hazon			
Module teaching staff:	Dr J A David			

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3 Biology for Aquaculture - Invertebrates							
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Distance learning			
Planned timetable:	To be arranged.						
This module provides an understanding of the fundamental biology of invertebrate aquaculture species. This includes the anatomy and physiology of appropriate aquaculture species. The interaction of aquaculture species with the aquatic environment and the requirements for developing sustainable aquaculture will be assessed.							
Programme module type:	Compulsory for Postgraduate Certificate in Sustainable Aquaculture (invertebrates). Either BL4802 or (BL4803 and BL4804) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes						
	Optional as a sta	nd alone module.					
Anti-requisite(s):	BL4802						
Learning and teaching methods and delivery:	Weekly contact: 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).						
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40% Dr N Hazon						
Module coordinator:							
Module teaching staff:	Dr J A David						

1804 Biology for Aquaculture - Vertebrates								
SCOTCAT Credits:	10	10 SCQF Level 10 Semester: Distance learning						
Planned timetable:	To be arranged.							
includes the anatomy and p	understanding of the fundamental biology of vertebrate aquaculture speciend physiology of appropriate aquaculture species. The interaction of aqua environment and the requirements for developing sustainable aquaculture							
Programme module type:	Compulsory for Postgraduate Certificate in Sustainable Aquaculture (vertebrates) Either BL4802 or (BL4803 and BL4804) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes							
	Optional as a sta	ind alone module.						
Anti-requisite(s):	BL4802							
Learning and teaching methods and delivery:	Weekly contact: 4 hours of lectures (x 5 weeks), and 3 hours of tutorials (x 3 weeks).							
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%							
Module coordinator:	Dr N Hazon	Dr N Hazon						
Module teaching staff:	Dr J A David							

BL5806 Nutrition - Invertebrates SCOTCAT Credits: 10 SCQF Level 11 Semester: Distance learning Planned timetable: To be arranged. This module provides advanced knowledge of the anatomy, physiology and nutritional requirements of key invertebrate species and a critical assessment of the sustainability of feed production technology. It will also assess and discuss the relationship between clinical nutrition and animal health and the importance of nutrition in developing optimal animal welfare. Programme module type: Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Invertebrates). Either BL5801 or (BL5806 and BL5807) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes Optional as a stand alone module. Anti-requisite(s): BL5801 Learning and teaching Weekly contact: 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 methods and delivery: weeks). Assessment pattern: 2-hour Written Examination = 60%, Coursework = 40% Module coordinator: Dr N Hazon

Dr J A David

Module teaching staff:

L5807 Nutrition - Vertebrates								
SCOTCAT Credits:	10	10 SCQF Level 11 Semester: Distance learning						
Planned timetable:	To be arranged.	o be arranged.						
vertebrate species and a c assess and discuss the rel	This module provides advanced knowledge of the anatomy, physiology and nutritional requirements of vertebrate species and a critical assessment of the sustainability of feed production technology. It will a assess and discuss the relationship between clinical nutrition and animal health and the importance nutrition in developing optimal animal welfare.							
Programme module type:	(Vertebrates). Either BL5801 o Aquaculture Pos	Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Vertebrates). Either BL5801 or (BL5806 and BL5807) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes						
Anti voquicito(s).	BI 5801	and alone module.						
Anti-requisite(s):	BLS801							
Learning and teaching methods and delivery:	Weekly contact weeks).	Weekly contact : 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).						
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%							
Module coordinator:	Dr N Hazon	Dr N Hazon						
Module teaching staff:	Dr J A David							

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BL5808 Health and Disease - Invertebrates **SCOTCAT Credits:** SCQF Level 11 Semester: Distance learning To be arranged. Planned timetable: This module provides advanced knowledge of the factors that influence disease processes in cultured invertebrate species including viral, bacterial, parasitic and non-infectious disease. The wide range of specific causes of disease and pathology in farmed species will be discussed and the importance of operations and management on the development and impact of disease in optimising welfare and developing sustainable and ethical aquaculture practices will be assessed critically. Programme module type: Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Invertebrates). Either BL5803 or (BL5808 and BL5809) is compulsory for Sustainable

	Aquaculture Postgraduate Diploma and MSc Programmes
	Optional as a stand alone module.
Anti-requisite(s):	BL5803
Learning and teaching methods and delivery:	Weekly contact : 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%
Module coordinator:	Dr N Hazon
Module teaching staff:	Dr J A David

BL5809 He	BL5809 Health and Disease - Vertebrates								
9	SCOTCAT Credits:	10	SCQF Level 11	Semester:	Distance learning				
ı	Planned timetable:	To be arranged.							
s c r	This module provides advanced knowledge of the factors that influence disease processes in cultured species including viral, bacterial, parasitic and non-infectious disease. The wide range of specific cause disease and pathology in farmed species will be discussed and the importance of operations management on the development and impact of disease in optimising fish welfare and development and ethical aquaculture practices will be assessed critically.								
F	Programme module type:	e: Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Vertebrates). Either BL5803 or (BL5808 and BL5809) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes Optional as a stand alone module.							
1	Anti-requisite(s): BL5803								
	Learning and teaching methods and delivery:	Weekly contact : 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).							
A	Assessment pattern:	2-hour Written	2-hour Written Examination = 60%, Coursework = 40%						

Dr N Hazon

Dr J A David

Module coordinator:

Module teaching staff:

Optional modules:

BL5802 N	.5802 Management, Husbandry and Sustainability								
	SCOTCAT Credits:	SCOTCAT Credits: 10 SCQF Level 11 Semester: Distance lea							
	Planned timetable:	To be arranged.							
	This module provides advanced knowledge of production management and business management o modern aquaculture practices. Environmental, social and economic sustainability of aquaculture depends on an understanding of the interactions of differing but complementary management structures.								
	Programme module type:	Compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes. Optional for both Sustainable Aquaculture Postgraduate Certificates.							
		•	n Sustainable Aquad ind alone module.	culture Posigradua	te Certificates.				
	Learning and teaching methods and delivery:								
	Assessment pattern:	2-hour Written Examination = 40%, Coursework = 60% Dr N Hazon							
	Module coordinator:								
	Module teaching staff:	Dr J A David			_				

BL5804 N	BL5804 Markets, Products, Processing and Food Safety							
	SCOTCAT Credits:	10	SCQF Level 11	Semester:	Distance learning			
	Planned timetable:	To be arranged.						
	This module provides advanced knowledge of aquaculture markets, products, processing and food safe Understanding the processes of ensuring the safety and quality of aquaculture products is central establishing efficient and sustainable aquaculture practices.							
	Programme module type:	Compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes. Optional for both Sustainable Aquaculture Postgraduate Certificates. Optional as a stand alone module. Weekly contact: 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks). 2-hour Written Examination = 40%, Coursework = 60%						
	Learning and teaching methods and delivery:							
	Assessment pattern:							
	Module coordinator:	Dr N Hazon						
	Module teaching staff:	Dr J A David						

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BL5805 L	5805 Local and Global Impacts of Aquaculture								
	SCOTCAT Credits:	10 SCQF Level 11 Semester: Distance learnin							
	Planned timetable:	To be arranged.	To be arranged.						
	This module provides advanced knowledge of the environmental impact of aquaculture practices on bot local and global scales. Understanding the environmental impact of aquaculture practices is central timproving and developing sustainable aquaculture.								
	Programme module type:	Compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes. Optional for both Sustainable Aquaculture Postgraduate Certificates. Optional as a stand alone module. Weekly contact: 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).							
	Learning and teaching methods and delivery:								
	Assessment pattern:	2-hour Written Examination = 40%, Coursework = 60% Dr N Hazon							
	Module coordinator:								
	Module teaching staff:	Dr J A David	Dr J A David						