

AGRI C3703: Protected Cropping Systems in Organic Agriculture

Module Title:			Protected Cropping Systems in Organic Agriculture
Language o	f Instruction:	:	English
Credits:	5	5	
oround:		, 	
NFQ Level:	7	7	
Module Deli	vered In		2 programme(s)
Teaching & Learning Strategies:			A combination of classroom, field work, site visits and guest speaker sessions will be offered to ensure every opportunity is given to learners to gain a thorough understanding of all aspects of crop production in this module. Classroom activities will include comprehensive crop and rotation design, fertility and weed management, and pest and disease control to ensure successful crop production. The additional learning strategies such as practical work, site visits and guest speakers are incorporated to enhance the classroom learning.
Module Aim	:		This module will give the learner an advanced understanding of organic protected cropping systems including agricultural organic practices, plant hygiene and market specifications. Rotational design will form a core aspect of this module thereby ensuring learners have skills to successful plan for crop production over an extensive rotation period for a commercial horticultural unit that uses protected cropping.
Learning Ou	itcomes		
On successf	ul completion	of th	nis module the learner should be able to:
LO1	Demonstrate calendar yea	e an ar.	ability to design a crop plan for protected cropping enterprises including fruit, vegetables, and herbs for a full
LO2	Design a fer	rtility	management plan for a five-year rotation in a polytunnel or glasshouse.
LO3	Demonstrate	e an	understanding of the use of biological pest control in protected cropping.
LO4	Demonstrate	e an	understanding of disease management of crops grown in protected structures.
Pre-requisit	e learning		
Module Rec This is prior I	ommendation learning (or a	ns prac	tical skill) that is recommended before enrolment in this module.
10814	AGRI C2703		Fundamentals of Protected Cropping Systems in Organic Agriculture
Incompatibl These are m	e Modules odules which	have	e learning outcomes that are too similar to the learning outcomes of this module.
No incompat	ible modules l	listeo	d
Co-requisite	Modules		
No Co-requis	site modules li	isted	1
Requirement This is prior l	earning (or a	prac	tical skill) that is mandatory before enrolment in this module is allowed.
Students are	expected to h	have	studied Protected Cropping Systems in Organic Agriculture- Fundamentals prior to studying this module.



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Module Content & Assessment

Indicative Content

Crop Rotations and Fertility Management

Students will learn the advanced techniques of crop design to ensure successful crop production for an entire rotation period. Fertility requirements and management techniques will form a core aspect of this module. The learner will become familiar with the incorporation of soil nutrients, compost, foliar feeds in terms of improving soil fertility in cropping structures. Weed control and associated techniques will be incorporated into the module.

Organic Pest Control in Protected Cropping Systems Learners will examine pest control in organic production. Differentiation of biological and cultural control methods will be explored in a practical setting. The learning will include familiarisation with crop pests and management techniques. Practical work in a protected cropping environment will assist the information accumulated in the formal lectures.

Organic Disease Control in Protected Cropping Systems Disease management is critical in organic systems and students will explore the main disease problems in protected cropping. Crop nutrition, hygiene management, soil borne diseases and remedial actions will be explored. Site visits to organic farms with protected cropping will benefit classroom learning.

Assessment Breakdown	%
Project	30.00%
Practical	20.00%
End of Module Formal Examination	50.00%

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Students are required to design a comprehensive crop plan for a protected structure for a full rotation, including fertility and weed management.	1,2,3,4	30.00	n/a

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Students will compete practical examinations that demonstrate an understanding of the main diseases and pests that affect protected crops	3,4	20.00	n/a

End of Module Formal Examin	odule Formal Examination			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	End of Semester Exam	1,2,3,4	50.00	End-of-Semester

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Students are required to design a comprehensive crop plan for a protected structure for a full rotation, including fertility and weed management.	1,2,3,4	30.00	n/a

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Students will compete practical examinations that demonstrate an understanding of the main diseases and pests that affect protected crops	3,4	20.00	n/a
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End of Module Formal Examin	of Module Formal Examination			
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	End of Semester Exam	1,2,3,4	50.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	2.00
Practicals	12 Weeks per Stage	1.00
Independent Learning Time	12 Weeks per Stage	3.00
	Total Hours	72.00
Workload: Part Time		
Workload Type	Frequency	Average Weekly Learner Workload

		Workload
Lecture	12 Weeks per Stage	2.00
Practicals	12 Weeks per Stage	1.00
Independent Learning Time	12 Weeks per Stage	3.00
	Total Hours	72.00

Module Delivered In			
Programme Code	Programme	Semester	Delivery
CW_SWOAG_B	Bachelor of Science (Honours) in Organic Agriculture	5	Mandatory
CW_SWOAG_D	Bachelor of Science in Organic Agriculture	5	Mandatory