

AGRI C3703: Protected Cropping Systems in Organic Agriculture

Module Tit	le:	P	rotected Cropping Systems in Organic Agriculture
Language of Instruction:		n: E	nglish
		I _	
Credits:		5	
NFQ Level:		7	
Module De	elivered In	2	programme(s)
Teaching & Strategies		ev th m st	combination of classroom, field work, site visits and guest speaker sessions will be offered to ensure very opportunity is given to learners to gain a thorough understanding of all aspects of crop production in its module. Classroom activities will include comprehensive crop and rotation design, fertility and weed anagement, and pest and disease control to ensure successful crop production. The additional learning rategies such as practical work, site visits and guest speakers are incorporated to enhance the classroom arrning.
Module Aim:		in	his module will give the learner an advanced understanding of organic protected cropping systems cluding agricultural organic practices, plant hygiene and market specifications. Rotational design will form core aspect of this module thereby ensuring learners have skills to successful plan for crop production ver an extensive rotation period for a commercial horticultural unit that uses protected cropping.
Learning C	Outcomes		
On success	sful completio	n of this i	module the learner should be able to:
LO1	Demonstra calendar y		ility to design a crop plan for protected cropping enterprises including fruit, vegetables, and herbs for a full
LO2	Design a f	ertility ma	anagement plan for a five-year rotation in a polytunnel or glasshouse.
LO3	Demonstra	ate an un	derstanding of the use of biological pest control in protected cropping.
LO4 Demonstrate ar		ate an un	derstanding of disease management of crops grown in protected structures.
Pre-requis	ite learning		
	ecommendat r learning (or		al skill) that is recommended before enrolment in this module.
10814	10814 AGRI C2703 Fundamentals of Protected Cropping Systems in Organic Agriculture		

Incompatible Modules
These are modules which have learning outcomes that are too similar to the learning outcomes of this module.

No incompatible modules listed

Co-requisite Modules

No Co-requisite modules listed

Requirements
This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

Students are expected to have studied Protected Cropping Systems in Organic Agriculture- Fundamentals prior to studying this module.



AGRI C3703: Protected Cropping Systems in Organic Agriculture

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

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	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 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	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	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 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



AGRI C3703: Protected Cropping Systems in Organic Agriculture

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		
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