

FARM H4701: Advanced Crop Production

Module Title:		Advanced Crop Production		
Language of Instruction:		English		
Credits:	10			
NFQ Level:	8			
Module Delivered In		No Programmes		
Teaching & Learning Strategies:		The module aims to build upon the skills acquired from the Crop Production, Protection and Weed Science' module. Students will acquire the skillset necessary to critically evaluate the economics and biology of producing crops. The breadth of crops will be broadened to include oilseeds and protein crops as well as alternative forage crops and where they could fit into a sustainable crop rotation. Grassland management skills will be further developed to include planning the infrastructure required for optimal grassland management. Formal lectures will be supplemented by case study and group work. A mixture of formal lectures along with facilitated crop walks and discussion group type activity to encourage the learner to critically analyse aspects of crop production. Learners will follow crop management on their own farms or selected farms in the area and critically analyse the inputs required as well as the production and financial returns. Where changes in management are being made a critical appraisal through group learning will be used. Visiting Lecturers on aspects relating to crop production will be used to broaden the learning experience. Students will also visit selected farms and agri-businesses/seed suppliers to discuss grassland management, identification of productivity and utilization problems and their solution. Cases will be appropriate to the learner group		
Module Aim:		The module aims to build upon the skills acquired from the Crop Production, Protection and Weed Science' module. Students will acquire the skillset necessary to critically evaluate the economics and biology of producing crops. The breadth of crops will be broadened to include oilseeds and protein crops as well as alternative forage crops and where they could fit into a sustainable crop rotation. Grassland management skills will be further developed to include planning the infrastructure required for optimal grassland management.		

Learning Outcomes				
On successful completion of this module the learner should be able to:				
LO1	Management of alternative combinable crops including proteins and oilseeds			
LO2	The use of integrated pest management as it applies to sustainable agricultural systems.			
LO3	Appraisal of alternative forages to grassland and where they fit in an integrated crop-livestock production system			
LO4	Be capable of designing pasture infrastructure to facilitate the optimal grassland production for the soil type and location			
LO5	Have an appreciation of the most up to date regulations in the area of crop production including environmental and health issues. Critically, the student will acquire the skills necessary to keep abreast of various legislation as it evolves and impacts upon their business.			

Pre-requisite learning	

Module Recommendations
This is prior learning (or a practical skill) that is recommended before enrolment in this module.

No recommendations listed

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

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

No requirements listed



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Module Content & Assessment

Indicative Content

Integrated pest management
• Rotations • Alternative forage selection • Cultural control • Establishment of critical thresholds for the control of crop pests and diseases

The role for integrated crop-livestock productions systems
•Use of forages in the rotation in tillage/ vegetable producers •Animal manures and their role in improving soil organic matter

Optimising grassland utilisation and quality

• Tools for the assessment of grass cover • grazing systems including zero grazing • Infrastructure for improved grassland utilisation

Assessment Breakdown	%
Continuous Assessment	50.00%
End of Module Formal Examination	50.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Short project critiquing management practices of a crop of choice identifying areas where change would be recommended		20.00	n/a
Practical/Skills Evaluation	Plan for upgrading the grazing facilities on a selected farm including expected benefits of the upgrading.		20.00	n/a
Essay	Essay		10.00	n/a

No Project	
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No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Terminal Examination	1,2,3,4,5	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	30 Weeks per Stage	2.00
Practicals	30 Weeks per Stage	1.00
Independent Learning	30 Weeks per Stage	3.67
	Total Hours	200.00