

Full Title:	Dairy, Sheep, Pigs and Poultry Production
Module Code:	PROD S6007
Credits:	7.5
Valid From:	Semester 1 - 2013/14 (September 2013)
Module Delivered in	2 programme(s)
Module Description:	This module should enable a student to work on the home farm or a modern commercial farm. It should enable him/her evaluate and make decisions on the feeding, breeding, housing and management requirements of dairy, sheep and other intensive farmyard enterprises.
Learning Outcomes:	
<i>On successful completion of this module the learner should be able to</i>	
<ol style="list-style-type: none"> 1. Discuss the key concepts in the management of spring and liquid milk production and also early and mid season lamb production. 2. Describe the importance of animal nutrition, grass measurement plus grassland management and conservation for dairying and sheep enterprises. 3. Summarise the main factors affecting animal fertility for dairy and sheep production and the use of economic breeding index (EBI) and ICBF breeding information 4. Discuss the key concepts of breeding, feeding, housing, management, quality assurance, biosecurity and economic returns from pig and poultry enterprises 	

Module Content & Assessment

Indicative Content

Dairying

Compare Spring and liquid milk production in terms of management, feed requirements, production costs and economic returns. Use of EBI index, AI sire catalogue and possible use of sexed semen in dairy breeding programmes and replacement heifer selection. Key indices and factors affecting dairy cow fertility such as diet, dystocia, body condition, heat detection methods, calving interval and reproductive disorders. Management practices to improve/ maximise herd fertility including interpretation of ICBF breeding information. Dairy nutrition requirements in relation to macro nutrients, minor elements and dry matter intake. Optimising milk chemical composition through good rumen health, diet formulation and manipulation.

Grass growth and grassland management

Factors affecting grass growth and quality such as grass growth curve, weather conditions, soil pH and fertility, grazing and conservation system, stocking rate and reseeding regime. Measurement of grass cover and grass budgeting, calculation of weekly grass 'wedge' and Spring rotation planner

Sheep production

Key breeding and management strategies for early, mid-season and store lamb production including breeds and hybrids, feed and housing requirements, production costs and economic returns. Factors affecting ewe fertility including terminal sire selection, body condition, lambing percentage, feeding requirements and carcass grading. Flock biosecurity, disease prevention and control. Quality Assurance requirements of the Beef and Lamb Quality Assurance Scheme (BLQAS). Traceability requirements of the National Sheep Identification Scheme (NSIS)

Pig, poultry and egg production

Overview of size and economic importance of the pig and poultry industries. Pig, poultry and egg production systems on farms. Requirements for pig, poultry and egg production including breeds and hybrids, feeding regimes, housing and rearing requirements; legislation, biosecurity and disease control Bord Bia Quality Assurance Scheme requirements for pig, poultry and egg production

Practicals:

Dairy and sheep husbandry tasks; milking routine, milking machine CIP and testing. Dairy and sheep facilities and housing evaluation. Grass measurement and budgeting and rotation planning. Replacement heifer and ewe practicals. Site visits to pig, poultry and egg production units

Assessment Breakdown

Assessment Breakdown	%
Course Work	50.00%
End of Module Formal Examination	50.00%

Full Time

Course Work

Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Continuous Assessment	Class test	1,2	10.00	0	0	Week 9	0
Practical/Skills Evaluation	Farm and farmyard practicals	2,3,4	40.00	0	0	Every Week	0

No Project

No Practical

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Marks Out Of	Pass Marks	Assessment Date	Duration
Formal Exam	End-of-Semester Final Examination	1,2,3,4	50.00	0	0	End-of-Semester	0

Reassessment Requirement

A repeat examination

Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

Module Workload & Resources

Workload: Full Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	Dairy, sheep, pigs and poultry	4.00	Every Week	4.00
Practical	Dairy, sheep , pigs and poultry	2.00	Every Week	2.00
Directed Reading	No Description	3.00	Every Week	3.00
Independent Study	No Description	2.00	Every Week	2.00
Total Weekly Learner Workload				11.00
Total Weekly Contact Hours				6.00

This course has no Part Time workload.

Resources
<i>Recommended Book Resources</i>
<p>Moore, M. et al. 2011, <i>Teagasc Dairy Manual</i>, Teagasc</p> <p>O' Dwyer, J. 2011, <i>Dairy Production Handbook</i>, Teagasc</p> <p>Hoyne, W. et al. 2010, <i>Sheep Production and Management</i>, Teagasc [ISBN: APO 710]</p> <p>Murphy, J.J. 2005, <i>Utilisation of Used Grass in Temperate Animal Systems</i>, Wageningen Academic Publishers</p>
<i>Supplementary Book Resources</i>
<p>Mc Donald, et al. 2011, <i>Animal Nutrition</i>, Prentice Hall</p> <p>Petit, T. et al. 2009, <i>Anatomy and Physiology of Farm Animals</i>, Teagasc [ISBN: APO211]</p> <p>Divers, T.J., Weaver, A.D 2008, <i>Colour Atlas of Diseases and Disorders of Cattle</i>, 3rd Ed., Saunders Elsevier</p> <p>Hulsen, J 2007, <i>A Practical Guide for Dairy Farm Management</i>, Rodbont Publishers</p>
<i>Recommended Article/Paper Resources</i>
<p><i>Irish Farmers Journal</i></p> <p><i>Farmers weekly</i></p> <p><i>Today's Farm</i></p>
<i>Other Resources</i>
<p>website: www.agiculture.gov.ie/a</p> <p>website: www.animalhealthireland.ie/a</p> <p>website: www.dairyco.org.ukn/a</p> <p>website: www.icbf.comn/a</p> <p>website: www.nadis.org.ukn/a</p> <p>website: www.partners-in-reproduction.comn/a</p> <p>website: www.teagasc.ie/a</p> <p>Link: <i>Library Catalogue</i> http://tinyurl.com/ogzd4z</p>

Module Delivered in

Programme Code	Programme	Semester	Delivery
DK_SAGRI_8	Bachelor of Science (Honours) in Agriculture	3	Mandatory
DK_SAGRI_C	Higher Certificate in Science in Agriculture	3	Mandatory