



CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data					
Module Title	Forage Management				
Module Code	UILXT3-15-2	Level	2	Version	1
Owning Faculty	Hartpury	Field	Animal and Land Science		
Contributes towards	FdSc Agriculture				
UWE Credit Rating	15	ECTS Credit Rating	7.5	Module Type	Standard
Pre-requisites	None		Co-requisites	None	
Excluded Combinations	None		Module Entry requirements	None	
Valid From	01 September 2014		Valid to	01 September 2020	

CAP Approval Date	27 January 2014
--------------------------	-----------------

Part 2: Learning and Teaching									
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ol style="list-style-type: none"> 1 Compare and contrast a range of conservation and ensilage techniques, and their uses (A, B). 2 Identify and evaluate the nutritional and economic value of a range of forages and grass mixtures (A, B). 3 Plan a forage production system to suit the target farm animal enterprise, rotation, soils and climate (A, B). 4 Interpret nutritional analysis of forage crops before and after conservation (B). 5 Prepare, interpret and present data, relating to forages and their management, using appropriate qualitative and quantitative techniques (A, B). 								
Syllabus Outline	<ol style="list-style-type: none"> 1 Grass and forage species recognition, choice of species and variety, recommended lists. 2 The process of conservation, including silage production and the use of additives. 3 Assessing silage quality pre and post ensilage. 4 The agronomy of a range of forage crops and their place in the rotation. 5 Sward appraisal, weed and disease identification and management options for their control. 6 The nutritional qualities of a range of forage crops for grazing and conservation. 7 Development of a feed plan for a given livestock enterprise and situation. 								
Contact Hours	<p>Indicative delivery modes:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Lectures, guided learning, seminars etc</td> <td style="text-align: right;">33</td> </tr> <tr> <td>Self directed study</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Independent learning</td> <td style="text-align: right;">114</td> </tr> <tr> <td>TOTAL HOURS</td> <td style="text-align: right;">150</td> </tr> </table>	Lectures, guided learning, seminars etc	33	Self directed study	3	Independent learning	114	TOTAL HOURS	150
Lectures, guided learning, seminars etc	33								
Self directed study	3								
Independent learning	114								
TOTAL HOURS	150								

Teaching and Learning Methods	<p>A variety of learning strategies will be used including lectures, seminars, on-farm and computer workshops and self-directed learning. Students will also be expected to engage in independent learning throughout the module and time to complete assessment work.</p> <p>Scheduled learning May include lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop.</p> <p>Independent learning May include hours engaged with essential reading, case study preparation, assignment preparation and completion etc.</p> <p>Virtual learning environment (VLE) This specification is supported by a VLE where students will be able to find all necessary module information. Direct links to information sources will also be provided from within the VLE.</p>																		
Key Information Sets Information	<p>Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.</p> <p>Key information set – module data</p> <p>Number of credits for this module 15</p> <table border="1" data-bbox="389 1039 1447 1227"> <thead> <tr> <th>Hours to be allocated</th> <th>Scheduled learning and teaching study hours</th> <th>Independent study hours</th> <th>Placement study hours</th> <th>Allocated Hours</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">150</td> <td style="text-align: center;">36</td> <td style="text-align: center;">114</td> <td style="text-align: center;">0</td> <td style="text-align: center;">150</td> </tr> </tbody> </table> <p>The table below indicates as a percentage the total assessment of the module which constitutes a:</p> <ol style="list-style-type: none"> 1 <i>Written exam:</i> Unseen written exam, open book written exam, in-class test. 2 <i>Coursework:</i> Written assignment or essay, report, dissertation, portfolio, project. 3 <i>Practical exam:</i> Oral assessment and/or presentation, practical skills assessment, practical exam. <p>Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the assessment section of this module description:</p> <p>Total assessment of the module:</p> <table data-bbox="389 1686 1059 1823"> <tr> <td>Written exam assessment percentage</td> <td style="border: 1px solid black; text-align: center;">60%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td style="border: 1px solid black; text-align: center;">0%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td style="border: 1px solid black; text-align: center;">40%</td> </tr> <tr> <td></td> <td style="text-align: center;">100%</td> </tr> </table>	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	36	114	0	150	Written exam assessment percentage	60%	Coursework assessment percentage	0%	Practical exam assessment percentage	40%		100%
Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours															
150	36	114	0	150															
Written exam assessment percentage	60%																		
Coursework assessment percentage	0%																		
Practical exam assessment percentage	40%																		
	100%																		

Reading Strategy	<p>Core readings Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be required to purchase a set text, be given a print study pack or be referred to texts that are available electronically or in the Library. Module guides will also reflect the range of reading to be carried out.</p> <p>Further readings Further reading will be required to supplement the set text and other printed readings. Students are expected to identify all other reading relevant to their chosen topic for themselves. They will be required to read widely using the library search, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely. The purpose of this further reading is to ensure students are familiar with current research, classic works and material specific to their interests from the academic literature.</p> <p>Access and skills Formal opportunities for students to develop their library and information skills are provided within the induction period and study skills sessions. Additional support is available through online resources. This includes interactive tutorials on finding books and journals, evaluation information and referencing. Sign up workshops are also offered.</p>
Indicative Reading List	<p>The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, CURRENT advice on readings will be available via other more frequently updated mechanisms, including the module guide.</p> <ul style="list-style-type: none"> • Casey, I.A. and Brereton, A.J. (Current Edition) <i>Optimising sward structure and herbage yield for the performance of dairy cows at pasture</i>. Fermoy: Teagasc. • Frame, J. (Current Edition) <i>Forage legumes for temperate grasslands</i>. Enfield, NH: Science Publishers. • Givens, D.I. (Current Edition) <i>Forage evaluation in ruminant nutrition</i>. New York: CABI. • Gulliver, M. and Gulliver, R. (Current Edition) <i>A key to grassland plants</i>. Shrewsbury: Field Studies Council. • Hopkins, A. (Current Edition) <i>Grass: its production and utilisation</i>. Current edition. Oxford: British Grassland Society. • Hopkins, J.J., (Current Edition) <i>High value grassland: providing biodiversity, a clean environment and premium products</i>. Cirencester: British Grassland Society. • Hubbard, C.E. and Hubbard, J.C.E. (Current Edition). <i>Grasses</i>. Harmondsworth: Penguin. • Lane, G.P.F. and Wilkinson, J.M. (Current Edition) <i>Alternative forages for ruminants</i>. Lincoln: Chalcombe Publications. • NIAB (Current Edition) <i>Pocket guide to livestock crops</i>. Cambridge: NIAB. • Pullar, D. (Current Edition) <i>Beef from grass and forage</i>. Reading: British Grassland Society. • Raymond, F. and Waltham, R. (Current Edition) <i>Forage conservation and feeding</i>. Ipswich: Farming Press Books. • Soffe, R.J., (Current Edition) <i>Agricultural notebook</i>. Oxford: Blackwell Science. • Stark, B.A. and Wilkinson, J.M. (Current Edition) <i>Whole-crop cereals</i>. Canterbury: Chalcombe Publications. • Wilkinson, J.M. (Current Edition) <i>Silage</i>. Southampton: Chalcombe Publications. • Wilkinson, J.M., Newman, G., and Allen, D.M. (Current Edition) <i>Maize: producing and feeding maize silage</i>. Lincoln: Chalcombe Publications. • Williams, J.B., Morrison, J.R. and Wood, C. (Current Edition) <i>A colour atlas of weed seedlings</i>. London: Manson.

	<p>Websites and databases:</p> <ul style="list-style-type: none"> British Grassland Society (2013) Organisation which acts as a communication forum for the profitable and sustainable use of grass and forage http://www.britishgrassland.com. Farmers Weekly (2013) Farming & Agricultural Industry News http://www.fwi.co.uk. Defra (2013) UK government department's environment, food and farming, and rural information http://www.defra.gov.uk. Sciencedirect (2013) Information source for scientific and technical research http://www.sciencedirect.com. <p><i>The above sources give an indication of the area of study involved. Although students may be directed to some specific titles, they will also be encouraged to identify other relevant material for themselves.</i></p>
--	--

Part 3: Assessment			
Assessment Strategy	<p>The written examination has been chosen so to facilitate broad assessment of the knowledge and understanding; and the intellectual skills gained throughout the module in a time-limited and controlled setting. The practical examination will also assess the practical application of the module's content.</p> <p>The practical examination is chosen to facilitate in depth utilisation of skills and understanding gained from farm visits and seminars; and relating this to material learnt in lectures and in additional study via analysis, evaluation and discussion.</p> <p>Feedback will be provided throughout the module via tutorial support; class and on farm discussions and short exercises in addition to that on assignment submissions and examination scripts.</p> <p>In line with the College's commitment to facilitating equal opportunities, a student may apply for alternative means of assessment if appropriate. Each application will be considered on an individual basis taking into account learning and assessment needs. For further information regarding this please refer to the VLE.</p>		
Identify final assessment component and element	Practical examination.		
% weighting between components A and B (Standard modules only)		A:	B:
		60%	40%
First Sit			
Component A (controlled conditions) Description of each element		Element weighting	
1	Written examination (1 hour)	100%	
Component B Description of each element		Element weighting	
1	Practical examination (30 minutes)	100%	
Resit (further attendance at taught classes is not required)			
Component A (controlled conditions) Description of each element		Element weighting	
1	Written examination (1 hour)	100%	
Component B Description of each element		Element weighting	
1	Practical examination (30 minutes)	100%	
If a student is permitted an EXCEPTIONAL RETAKE of the module the assessment will be that indicated by the Module Description at the time that retake commences.			