



CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data					
Module Title	Crop Management				
Module Code	UILXSJ-15-2	Level	2	Version	1
Owning Faculty	Hartpury	Field	Animal and Land Science		
Contributes towards	FdSc Agriculture FdA Agricultural Business Management				
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
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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 Identify and assess the impact of weeds, diseases and pests on the yields of arable crops (A). 2 Demonstrate knowledge of the production of energy crops (A). 3 Justify selection of appropriate agrochemicals for the effective control of weeds, diseases and pests to minimise the creation of resistant types (A, B). 4 Understand and implement the principles of Integrated Pest Management in a crop production system (B). 5 Evaluate cultural and biological control measures for the control of weeds, diseases and pests in the main arable crops (B). 6 Analyse the effect of crop protection systems on the environment (B).
Syllabus Outline	<ol style="list-style-type: none"> 1 Identification of the main weeds, pests and diseases of each major UK arable field crop and the key problems they pose which threaten the yields of those crops. 2 Agronomic production details, economics, and industrial uses of biomass crops such as <i>Miscanthus</i> and willow, and of oilseed crops used in the production of biofuels. 3 The principles of Integrated Pest Management (IPM) and the economic interaction of cultural, biological and agrochemical crop protection methods on pests and the environment. 4 The principles of agrochemical control of weeds, pests and diseases including mechanisms of prophylactic and curative action and the importance of the UK Pesticide Guide in showing all currently registered agrochemicals including adjuvants. 5 Legislation and safety applied to chemical storage, use and disposal.

	6	The problems of pest resistance to agrochemicals and strategies to avoid resistance developing.																									
Contact Hours	Indicative delivery modes:																										
	Lectures, guided learning, seminars			33																							
	Self-directed study			3																							
	Independent study			114																							
	TOTAL HOURS			150																							
Teaching and Learning Methods	<p>A variety of learning strategies will be used including lectures, seminars and on-farm 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 and/or seminar preparation, assignment preparation and completion etc.</p> <p>Virtual learning environment (VLE) (or equivalent) This module 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 (or equivalent).</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> <table border="1" style="width: 100%;"> <tr> <td>Number of credits for this module</td> <td colspan="3"></td> <td style="text-align: center;">15</td> </tr> <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> <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> </table> <p>The table below indicates as a percentage the total assessment of the module which constitutes:</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 border="1" style="width: 100%;"> <tr> <td>Written exam assessment percentage</td> <td style="text-align: center;">0%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td style="text-align: center;">50%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td style="text-align: center;">50%</td> </tr> <tr> <td></td> <td style="text-align: center;">100%</td> </tr> </table>				Number of credits for this module				15	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	0%	Coursework assessment percentage	50%	Practical exam assessment percentage	50%		100%
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Practical exam assessment percentage	50%																										
	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"> • Alford, D.V. (Current Edition) <i>A textbook of agricultural entomology</i>. Oxford: Blackwell Science. • BCPC (Current Edition) <i>The UK pesticide guide (The Green Book)</i>. Bracknell: BCPC. • Carlile, W.C. (Current Edition) <i>Control of crop diseases</i>. Cambridge: Cambridge University Press. • Copping, L.G. (Current Edition) <i>The manual of biocontrol agents: a world compendium</i>. Bracknell: BCPC. • DEFRA (Current Edition) <i>Code of practice for the safe use of pesticides on farms and holdings: Green Code</i>. London: MAFF Publications. • Dent, D. (Current Edition) <i>Insect pest management</i>. Wallingford: CAB International. • Van Emden, H.F. and Peakall, D.B. (Current Edition) <i>Beyond silent spring: Integrated pest management and chemical safety</i>. London: Chapman & Hall. • Gratwick, M. ed (Current Edition) <i>Crop pests in the UK</i>. London: Chapman & Hall. • Hance, R.J. and Holly, K. eds. (Current Edition) <i>Weed control handbook: principles</i>. Bracknell: BCPC. • Muller, F. ed. (Current Edition) <i>Agrochemicals: composition, production, toxicology applications</i>. Weinheim: Wiley-VCH. • Strawson, J. (Current Edition) <i>Energy crops and the market for biomass in the UK</i>. National Farming Scholarships Trust, Markey Harborough. • Webster, J.P.G. and Bowles, R.G. (Current Edition) <i>The costs and benefits of pesticide usage</i>. London: Wye College. <p>Websites and databases:</p> <ul style="list-style-type: none"> • Agriculture online: www.agriculture.com. • Farmers Weekly: www.farmersweekly.co.uk. • Agriknowledge: www.hotfrog.co.uk/Agriknowledge. • Cambridge Journals online: www.journals.cambridge.org. • Crop Protection: www.crop-protection-monthly.org. • DEFRA: www.defra.gov.uk. • Science Direct.

	<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>
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Part 3: Assessment

Assessment Strategy	<p>The practical 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.</p> <p>The written report assignment 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>
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Identify final assessment component and element	Practical examination
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% weighting between components A and B (Standard modules only)	A:	B:
	50%	50%

First Sit

Component A (controlled conditions) Description of each element	Element weighting
1 Practical examination (1 hour)	100%

Component B Description of each element	Element weighting
1 Written report (1,000 words)	100%

Resit (further attendance at taught classes is not required)

Component A (controlled conditions) Description of each element	Element weighting
1 Practical examination (1 hour)	100%

Component B Description of each element	Element weighting
1 Written assignment (1,000 words)	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.
