



Module Specification

Part 1: Basic Data					
Module Title	Developments in Crop Production				
Module Code	UILV7E-15-3	Level	3	Version	1
Credit Rating	15	ECTS Credit Rating	7.5	WBL module?	No
Owning Faculty	Hartpury	Field	Animal and Land		
Department	Agriculture	Module Type	Standard		
Contributes towards	BSc (Hons) Applied Agriculture BSc (Hons) Applied Agriculture (SW) BSc (Hons) Applied Agriculture (Crop Production) BSc (Hons) Applied Agriculture (Crop Production) (SW) BSc (Hons) Applied Agriculture (International) BSc (Hons) Applied Agriculture (International) (SW)				
Pre-requisites	None	Co- requisites	None		
Excluded Combinations	None	Module Entry requirements	None		
Last Major Approval Date	19 January 2017	Valid from	1 September 2017		
Amendment Approval Date		Revised with effect from			
Review Due By	1 September 2023				

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. Critically evaluate factors associated with current challenges to crop production. (A) 2. Appraise the impact of global policy and legislation on future crop production. (A) 3. Critically evaluate the sustainable use of renewable and non-renewable resources and their use in crop production. (A) 4. Critique the management of crop production systems and how these need to adapt to current challenges to global agriculture. (A) 5. Evaluate approaches to effective sustainable land management. (A) 6. Propose solutions to current problems in crop production supported by valid and evaluated evidence. (A)
Syllabus Outline	<p>The module will look at a broad range of topics which allows the students to gain knowledge and understanding of the following topic areas:</p> <ul style="list-style-type: none"> • Current and contemporary crop production challenges as a result of: political, technological, social, cultural and economic influences. • Resource management within crop production: soil, air, water, nutrients, minerals, food, timber, energy, waste. • How the policy, institutional and legislative framework may change in the future and their impact on future crop production? • Indicators of sustainability to meet the challenges of future crop production.

Teaching and Learning Methods (and contact hours)	<p>Alongside the contact time for the module the students are also expected to carry out independent study in support of the module through reading and research. Guest speakers, evidence based learning and attendance at relevant industry conferences and shows will contribute to both contact time and independent study. In line with the industry focused nature of the final year of the programme the delivery of teaching will be flexible to support students with placement work.</p> <p>A mix of guest lecturers, contact time, directed study, independent study, shadowing of industry specialists, conference and show attendance, agricultural forums, and field walking sessions will develop the student's knowledge and understanding of the subject area alongside development of critical skills to enhance employment and develop critical reflection in and on practice.</p> <p>Virtual Learning Environment (VLE) This specification is supported by Moodle 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>HEFCE require Key Information Sets (KIS) to be produced at programme level for all undergraduate programmes of more than one year in length. 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> <table border="1" data-bbox="488 882 1375 1234"> <thead> <tr> <th colspan="5">Key Information Set - Module data</th> </tr> <tr> <td colspan="5"><i>Number of credits for this module</i></td> </tr> </thead> <tbody> <tr> <td colspan="4"></td> <td style="border: 2px solid black; 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;">32</td> <td style="text-align: center;">118</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> <p>Written Exam: Unseen written exam, open book written exam, In-class test Coursework: Written assignment or essay, report, dissertation, portfolio, project Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam</p> <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> <table border="1" data-bbox="596 1637 1270 1868"> <thead> <tr> <th colspan="2">Total assessment of the module:</th> </tr> </thead> <tbody> <tr> <td>Written exam assessment percentage</td> <td style="text-align: center;">100%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td style="text-align: center;">0%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td style="text-align: center;">0%</td> </tr> <tr> <td></td> <td style="text-align: center;">100%</td> </tr> </tbody> </table>	Key Information Set - Module data					<i>Number of credits for this module</i>									15	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	32	118	0	150	Total assessment of the module:		Written exam assessment percentage	100%	Coursework assessment percentage	0%	Practical exam assessment percentage	0%		100%
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Reading Strategy	<p>Students are expected to read a range of textbooks, journal articles and industry relevant publications in support of the module.</p> <p>Any core essential reading will be indicated clearly in the first week of module teaching along with the method for accessing it, e.g. students may be expected to</p>																																			

	<p>purchase a set text, be given a study pack, or be referred to texts that are available electronically, etc. This guidance will be available on the relevant VLE page.</p> <p>Further and wider reading is encouraged for this module with relevant material indicated in lectures, lecture notes, seminar preparation instructions and on the relevant VLE.</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 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.</p> <p>Books</p> <p>British Crop Production Council (BCPC) (Current Edition) <i>Biological control introductions: opportunities for improved crop production</i>. Alton: British Crop Protection Council.</p> <p>Dragun, A.K. and Tisdell, C. eds. (Current Edition) <i>Sustainable agriculture and environment: globalisation and impact of trade liberalisation</i>. Cheltenham: Edward Elgar.</p> <p>Harris, D. (Current Edition) <i>The illustrated guide to hydroponics</i>. London: New Holland Press.</p> <p>Morgan, M. and Ess, D. (Current Edition) <i>The precision farming guide for agriculturalists</i>. Illinois, USA: John Deere.</p> <p>National Research Council (Current Edition) <i>Precision agriculture in the 21st century – geospatial and information technologies in crop management</i>. Washington DC, USA: National Academy Press.</p> <p>Websites</p> <p>Home Grown Cereal Association: https://cereals.ahdb.org.uk/</p> <p>National Institute for Agricultural Botany: http://niab.com/</p> <p>Department for Environment Farming and Rural Affairs (DEFRA): https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs</p> <p>Journals</p> <p>Journal of Crop Science and Biotechnology</p> <p>Crop Production</p> <p>Crop Science</p> <p>European Journal of Soil Science</p> <p>Plant and Soil</p> <p>Soil</p>

Part 3: Assessment

Assessment Strategy	<p>This module is summatively assessed by a 3 hour seen written exam. The exam requires students to produce appropriate responses to questions on a range of topics in a timed environment, communicating clearly and professionally on a range of applied topics. The examination will focus on current and future issues within the crop production sector. Students will be assessed on their ability to analyse and critically evaluate a wide breadth and depth of information and produce novel solutions to a range of problems. Formative assessment and feedback will take place through timetabled seminars and tutorials. Students are encouraged to engage in critical debate and to question guest speakers and industry representatives they will be exposed to during this module, as well as engage in their own additional research and reading to support their examination performance. Students will receive formative support and verbal feedback through tutorial sessions with academic staff. Additional examination support will be offered through the VLE.</p> <p>In line with the Institution'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	Written Examination	
% weighting between components A and B (Standard modules only)	A:	B:
	100%	N/A
First Sit		
Component A (controlled conditions) Description of each element	Element weighting (as % of component)	
1. Seen Written Examination (3 hours)	100%	

Resit (further attendance at taught classes is not required)		
Component A (controlled conditions) Description of each element	Element weighting (as % of component)	
1. Seen Written Examination (3 hours)	100%	
If a student is permitted a retake of the module under the Academic Regulations and Procedures, the assessment will be that indicated by the Module Specification at the time that retake commences.		