

## Module Specification

		Part 1: Bas	ic Data				
Module Title	Agronomy						
Module Code	UILV79-30-2		Level	2	Ver	sion	1.1
Credit Rating	30	ECTS Credit Rating	15	WBL modu	ile?	No	
Owning Faculty	Hartpury		Field	Animal and	l Lan	d	
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	Crop Production and Soil Management UILV75-30-1		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	V1.1- 01 March	2018	Revised with effect from	V1.1- 01 S	epter	nber 2(	)18
Review Due By	1 September 20	)23					

Part 2: Learning and Teaching		
Learning Outcomes	<ul> <li>On successful completion of this module students will be able to: <ol> <li>Apply knowledge of the production of crops and analyse the use of growth regulators to propose justified solutions to maximise crop yields. (B)</li> <li>Evaluate the impact of weeds, disease and pests on the yields of crops. (B)</li> <li>Defend the selection of appropriate agrochemicals, and cultural and biological control measures for the effective control of weeds, diseases and pests to minimise the creation of resistant types and to maximise yield. (A)</li> <li>Critically implement the principles of Integrated Pest Management in a crop production system. (A, B)</li> <li>Analyse the effect of crop protection systems on the environment. (B)</li> <li>Construct an industry standard report using digital technology. (B)</li> </ol> </li> </ul>	
Syllabus Outline	<ul> <li>The module will help the students to develop their agronomy skills and make recommendations for crop protection.</li> <li>Weeds, pests, disease of common crops including grassland</li> <li>Crop production</li> <li>Agro chemicals / chemical resistance/anti resistant strategies. Correct identification of weeds, pests and disease and correct choice of agrochemicals.</li> <li>Biological controls, cultural controls and chemical control. Finding the balance. Use of thresholds.</li> </ul>	

	<ul> <li>Plant puse of quality</li> <li>Applic maxim</li> <li>Under crop p</li> </ul>	population man plant growth re and margins. ation of variable ise effective us pinning knowled rotection.	ipulation throu gulators and v e rate technolo e of inputs to dge and under	gh time of pla variety choice. ogy to target ir help achieve r rstanding to co	nting, seed ra Effects of loo nputs from ma maximum ma omplete found	ates, tillering, dging on yields, apping to rgins. dation award in
	Produ	ction of scientifi	c posters and	critical reports	6.	
Teaching and Learning Methods (and contact hours)	The module will be delivered across semesters one and two to allow students to understand the annual production cycle of crops, crop weeds, pests and diseases. Sessions will include lectures and seminars which will focus on evidence informed practice utilising Hartpury's farms for crop walking and shadowing of the college agronomist and directed learning on the VLE.					
	Students are also encouraged to develop core vocational skills through relevant short courses, lab work, field walking on the college farm and visits to other crop producing farms, seed producers and agri-chemical industries These will occur throughout the module to support student learning. The module has directed study time where students will be set reading tasks for seminar work.					
	The mix of contact time, directed study, independent study and practical skills sessions will develop the student's academic and vocational skills knowledge and understanding of the subject area alongside development of key vocational skills.					
	Virtual Lear This specific necessary m provided fror	ning Environm ation is suppor nodule informa n within the VLI	ent (VLE) rted by Moodl tion. Direct lin E.	e where stud nks to inform	ents will be ation source	able to find all s will also be
Key Information Sets Information	HEFCE require undergraduate of standardise students to con applying for.	e Key Information programmes of d information al mpare and cont	on Sets (KIS) of more than or pout undergrad trast between	to be produce ne year in leng duate courses programmes t	d at program gth. KIS are allowing pro hey are inter	me level for all comparable sets spective ested in
	Key Info	rmation Set - M	odule data			
	Number	of credits for this	module		30	
	Number	of credits for this	module		30	
	Number Hours to allocated	be Scheduled learning and teaching study hours	module Independent study hours	Placement study hours	30 Allocated Hours	
	Number Hours to allocated 300	of credits for this be Scheduled learning and teaching study hours 72	module Independent study hours 228	Placement study hours 0	30 Allocated Hours 300	

	Total assessment of the module:						
	Written exam assessment percentage	0%					
	Coursework assessment percentage	70%					
	Practical exam assessment percentage	30%					
		100 %					
Reading Strategy	Students are expected to read a range of textbooks, journar relevant publications in support of the module.	al articles and	industry				
	Any <b>core</b> 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 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.						
	<b>Further</b> and wider reading is encouraged for this module windicated in lectures, lecture notes, seminar preparation instrelevant VLE.	<b>Ter</b> and wider reading is encouraged for this module with relevant material ated in lectures, lecture notes, seminar preparation instructions and on the ant VLE.					
	<b>Access and skills</b> Formal opportunities for students to develop their library ar provided within the induction period and study skills sessio available through online resources. This includes interactiv and journals, evaluation information and referencing. Sign offered.	nd information ns. Additional e tutorials on up workshops	a skills are support is finding books s are also				
Indicative Reading List	The following list is offered to provide an indication of the test students may be expected to consult. As such, its currence span of the module specification. However, as indicated a readings will be available via other more frequently update	ype and level y may wane o bove, CURRE d mechanism	of information during the life ENT advice on s.				
	Books						
	British Crop Production Council (BCPC) (Current E guide (The Green Book). Bracknell: BCPC.	dition) The L	IK pesticide				
	Carlile, W.C. (Current Edition) <i>Control of crop dise</i> Cambridge University Press.	ases. Cambri	dge:				
	Copping, L.G. (Current Edition) <i>The manual of bio</i> compendium. Bracknell: BCPC.	control agents	s: a world				
	Department for Environment Farming and Rural Af Edition) Code of practice for the safe use of pestic Green Code. London: MAFF Publications.	fairs (DEFRA ides on farms	.) (Current and holdings:				
	Dent, D. (Current Edition) <i>Insect pest managemen</i> International.	t. Wallingford	: CAB				
	Finch, H.J.S., Samuel, A.M. and Lane, G.P.F (Cur <i>Wiseman's Crop Husbandry</i> . 8 <sup>th</sup> ed. Woodhead. C	rent Edition). ambridge.	Lockhart and				
	Gratwick, M. ed (Current Edition) Crop pests in the Hall.	<i>UK</i> . London:	Chapman &				
	Hance, R.J. and Holly, K. eds. (Current Edition) <i>W</i> principles. Bracknell: BCPC.	eed control h	andbook:				
	Muller, F. ed. (Current Edition) Agrochemicals: cor toxicology applications. Weinheim: Wiley-VCH.	nposition, pro	duction,				
	Van Emden, H.F. and Peakall, D.B. (Current Editic Integrated pest management and chemical safety.	n) <i>Beyond si</i> London: Cha	<i>lent spring;</i> pman & Hall.				
	Webster, J.P.G. and Bowles, R.G. (Current Edition <i>pesticide usage</i> . London: Wye College.	) The costs a	nd benefits of				
	Websites and databases:						

Agriculture Research: <u>http://www.rothamsted.ac.uk/</u>
Farmers Weekly: <u>http://www.fwi.co.uk/</u>
Home Grown Cereal Association: https://cereals.ahdb.org.uk/
National Institute for Agricultural Botany: http://niab.com/
Journals
Journal of Crop Improvement
Agronomy and Crop Science

Part 3: Assessment				
Assessment Strategy	The module is assessed through a skills assessment portfolio and a poster defence. The portfolio will provide a summary of student progress. This may be centred on practical achievement of vocationally relevant skills, short answer questions, short projects or reflective logs and will be submitted electronically. Students will be exposed to industry relevant research and how this informs current and future practice during lectures, seminars and industry engagement. During these sessions students will be expected to engage in questioning and debate which will prepare them to defend their poster. Throughout the module and skills assessment there will be opportunities for students to receive formative feedback to support them in their development and allow them to reflect effectively on their performance and whether it meets industry requirements. Additional opportunities for reflection will occur within groups during visits and project completion. Portfolios will be completed by the submission date.			
	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.			

	Skills Assessment	Portfolio	
Identify final assessment component and element			
		A:	<b>B</b> :
% weighting between components A and B (Standard modules only)			70%
	• /		
First Sit			
<b>Component A</b> (controlled conditions)		Element v	veiahtina
Description of each element		(as % of co	mponent)
<ol> <li>Poster Defence (15 minutes)</li> </ol>		100	)%
Component P (Upgentrelled conditions)		Flomonty	aighting
Component B (Uncontrolled conditions)		Element v	veignting
Description of each element		(as % of co	mponent)
4 Obilla Assessment Dartfalia (aminalant ta 2	000	4.00	
1. Skills Assessment Portfolio (equivalent to 3	,UUU woras)	100	1%

Resit (further attendance at taught classes is not required)			
Component A (controlled conditions) Description of each element	Element weighting (as % of component)		
1. Poster Defence (15 minutes)	100%		
Component B (Uncontrolled conditions) Description of each element	Element weighting		

	(as % of component)
1. Skills Assessment Portfolio (equivalent to 3,000 words)	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.