

Module Overview			
Module Title	Crop Production Technology and Innovation		
Module Code	CU4013 (EPU6)	Module Type	Taught Module
Subject Area	Agricultural Science and Practice (ASP)		
Module Leader	Andriy Melnyk		
Location	SNAU Ukraine	Semester	Semester 2 (SNAU)
FHEQ Level	Level 7	Credits	15 credits
QAA Subject Benchmark Statement	Master's Degrees - Business and Management		
Module Description			
<p>Students taking this module will develop an understanding of the theoretical and practical aspects of modern technologies, while critically evaluating the production efficiencies that could be achieved with the adoption of these technological innovations. The module will cover guidance systems, telematics, remote sensing, Big-Data, IoT, specific crop and robotics and analytics.</p>			
Intended Learning Outcomes			
ILO1	Critically analyse how the latest technologies and innovative solutions contribute to UK and World agricultural production systems, safe food supply, and the environment.		
ILO2	Critically analyse the operation and function of a range of agricultural technologies and innovative solutions used in UK and world production systems		
ILO3	Interpret and develop critical responses to how digital agriculture, and data collection can be used to increase the efficiency of on farm crop production systems		
ILO4	Discuss the relevant considerations relating to a variety of complex sensors and automation in relation to agricultural and horticultural production systems.		
Learning, Teaching and Assessment			
Approach to Learning and Teaching			
<p>Critical Written and oral skills: ICT including PowerPoint and bibliographic databases; sourcing evaluation and synthesizing information; critical evaluation and decision-making; group working and team skills. Teaching Methods: The course will consist of a series of lectures provided through a blended learning approach. This will include online pre-recorded lectures combined with regular</p>			

face-to-face classes for tutorials, field activities and Q&A's to help reinforce learning. Students will be required to prepare seminar presentations, to prepare individual group written reports, and also to conduct formative practical assessments. evaluation and presentation

#### Approach to Assessment

LO's 1 and 2 will be addressed by a critical review of a topic related to the module. This written assessment will help students to improve their synthesis skills and encourage the critical thinking required at level 7. The second assessment will address LO's 3 and 4 in form of a presentation. This will give students the opportunity to research a topic at a deeper level. It will also help to improve public speaking and knowledge transfer skills.

Scheduled Learning and Teaching Hours (seminars)	24
Scheduled Learning and Teaching Hours (field-based)	0
Scheduled Learning and Teaching Hours (lab-based)	0
Scheduled Learning and Teaching Hours (computer-based)	0
Scheduled Learning and Teaching Hours (online learning)	12
Independent Study Hours	0
Placement Learning Hours	0
Total Study Hours	150

#### Assessment Components

Component	Type	Weight	Acc' Req?	Submission Week	ILOs Assessed				
					1	2	3	4	5
Essay (critical review) (2500 words)	Coursework	70%	<input type="checkbox"/>	Week 27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Presentation (15 minutes)	Practical	30%	<input type="checkbox"/>	Week 35	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Associated Programmes

Programme Title	Designation
MSc Sustainable Agriculture and Food Security	Optional

#### Resources

Reading list	<a href="https://rau.rl.talis.com/index.html">https://rau.rl.talis.com/index.html</a>
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