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# SNAU & RAU elective disciplines



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I semester  
(choose 1 from 2)



# Entrepreneurship and Business Planning

## Module Description

The aim of this module is to enhance students' understanding of the role of the entrepreneur in the creation of new ventures while also introducing them to practical ways of recognising, assessing and articulating start-up opportunities using a business plan and pitch.

The module covers the full range of issues in establishing a new business, with a focus on SMEs. This includes the following topics: entrepreneurship theory; creativity and innovation; business plans and planning; business ideas and opportunities; enterprise start-up; market analysis; sales forecasting; legal forms of business entity; P&L, cash flow and balance sheet projections; breakeven analysis; sensitivity analysis; sources of funds; bank lending; accounting for VAT and PAYE; enterprise growth and sustainable growth strategies; operations planning; exit strategies; risk analysis; contingency planning.



SVITLANA LUKASH

# Entrepreneurship and Business Planning

## Intended Learning Outcomes

ILO1	Understand and critically evaluate the linkages between entrepreneurship and venture creation, development and growth, including the motivations which entrepreneurs have for creating new ventures
ILO2	Critically discuss alternative approaches and business models for the exploitation of entrepreneurial opportunities
ILO3	Collate and organise data from different sources and demonstrate an ability to interpret economic data for the purpose of business planning
ILO4	Analyse different business situations where entrepreneurial opportunities are present or possible, taking into consideration the resources required to pursue an opportunity
ILO5	Understand and evaluate critically the key elements and purpose of a business plan and know what should be included in a business 'pitch' of a new venture opportunity

## Assessment Components

Component	Type	Weight	Acc' Req?	Submission Week	ILOs Assessed				
					1	2	3	4	5
Professional Practice Report (Business Plan – 2500 words)	Coursework	60%	<input type="checkbox"/>	Week 13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Presentation (15 minutes)	Practical	40%	<input type="checkbox"/>	Week 9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Associated Programmes

# Environmental Science in Agriculture

## Module Description

This postgraduate module is designed to provide students with the skills necessary to tackle issues surrounding how the environment impacts agriculture and how agriculture impacts the environment. Students will gain sought-after transferable skills allowing them to be confident with interpreting environmental data from agricultural settings and being able to make sound deductions based on the available evidence. The knowledge gained will equip the students to make an impact on the sustainable adaptation agriculture to climate change.



MARHARYTA LYSHENKO

# Environmental Science in Agriculture

## Intended Learning Outcomes

ILO1	Analyse and discuss the influences of environmental factors on agriculture and make deductions about sustainability
ILO2	Critically evaluate how agriculture affects the environment and discuss implications for sustainability
ILO3	Select and apply the scientific techniques and methodologies used in measuring, monitoring and researching environmental impacts
ILO4	To interpret complex data, including uncertainty, and drawing sound applicable conclusions

## Assessment Components

Component	Type	Weight	Acc' Req?	Submission Week	ILOs Assessed				
					1	2	3	4	5
Essay (3000 words)	Coursework	100%	<input type="checkbox"/>	Week 13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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# II semester (choose 4 from 5)



# Crop Production Technology and Innovation

## Module Description

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.



ANDRII MELNYK

<https://agro.snau.edu.ua/en/chairs/departament-of-garden-and-forestry/staff-of-the-department/melnyk-andrii-vasylovykh/>



# Crop Production Technology and Innovation

## 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.

## 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"/>

# Organic Systems

## Module Description

Global food production is facing a growing convergence of issues that threaten food sovereignty: environmental deterioration, threats to agricultural productivity, a global public health crisis and climate change. Organic, regenerative farming, is a holistic approach, aiming to champion soil health to produce nutritious (local) food, while restoring the environment, enhancing farm animal welfare standards, as well as mitigating against climate change. This module therefore introduces students to the role organic principles and practices can play in the ethical and sustainable development of our future food and farming system.



VOLODYMYR ILCHENKO

<https://agro.snau.edu.ua/en/chairs/plant-department/staff-of-the-department/ilchenko-volodymyr-oleksiyovych/>

# Organic Systems

## Intended Learning Outcomes

ILO1	Critically evaluate the role and impact organic, regenerative practices can play to the future of food, farming, environment and society
ILO2	Evaluate consumer interest in, and regulatory/market standards which incentivise organic produces and the impacts they have on market outlets for suppliers from developed and emerging economies.
ILO3	Understand current and future UK, EU and global policy mechanisms required to power up organic, regenerative farming.
ILO4	Explain the role of knowledge exchange mechanisms, such as communities of practice, community supported agriculture and farmer led innovation programmes to inspire farmers and facilitate wider uptake of organic practices.

## Assessment Components

Component	Type	Weight	Acc' Req?	Submission Week	ILOs Assessed				
					1	2	3	4	5
Audio visual media (1-2 Powerpoint slides (400 word guide) with 5-10 minute recorded presentation)	Coursework	40%	<input type="checkbox"/>	Week 10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Essay (3,500 words)	Coursework	60%	<input type="checkbox"/>	Week 13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

# Climate Change and Sustainability

## Module Description

This module tackles anthropogenic climate change, arguably the biggest challenge currently facing humanity. The module assesses the causes and consequences of climate change and the actions, rooted in sustainability, which should be taken to mitigate and adapt to its impacts.

The module evaluates the causes and consequences of climate change. The risks and impacts of climate change on terrestrial ecosystems, including agriculture, and humanity are then analysed. The issues of uncertainty and complexity are discussed. The potential solutions that could help mitigate climate change are addressed including the central role of increasing sustainability. Finally solutions to adapting to climate change are discussed including the key role of multidisciplinary working and involvement of stakeholders and communities.



OLENA SLAVKOVA

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# Climate Change and Sustainability

## Intended Learning Outcomes

ILO1	Systematically analyse the impacts of climate change on ecosystems, including agriculture, and humanity, whilst dealing with uncertainty and complexity.
ILO2	Relying on the latest research, critically appraise strategies aimed at mitigating climate change in a range of situations.
ILO3	Design and critically evaluate multidisciplinary strategies aimed at adapting to climate change, in the absence of complete data.

## Assessment Components

Component	Type	Weight	Acc' Req?	Submission Week	ILOs Assessed				
					1	2	3	4	5
Essay (3000 words)	Coursework	100%	<input type="checkbox"/>	Week 35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Small Scale Farming and Local Food Supply

## Module Description

The module will cover the following areas:

- The significance of scale in farming and food supply systems;
- Policy and small-scale farming in a range of country contexts;
- Initiatives in small scale farming including (but not limited to) organics, urban agriculture, biodynamics, permaculture, regenerative agriculture;
- Soil, sustainability and small-scale farming;
- Local food supply – initiatives, innovations and potentials;
- Economics and small-scale farming and local food production;
- Seed to table, farm to fork – local food supply
- Ethics in food supply systems and in relation to 'scale' in agriculture
- Small scale farming – future prospects.



ALINA BRYCHKO

# Small Scale Farming and Local Food Supply

## Intended Learning Outcomes

ILO1	Evaluate the impact of small-scale agriculture and food on local food supply on a range of agricultural systems.
ILO2	Critically evaluate the sustainability of small-scale farming and local food supply systems using appropriate indicators.
ILO3	Appraise the current and potential contribution of small-scale and local food supply systems to local, regional and national food security.

## Assessment Components

Component	Type	Weight	Acc' Req?	Submission Week	ILOs Assessed				
					1	2	3	4	5
Case Study (1500 words)	Coursework	50%	<input type="checkbox"/>	Week 26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Professional Practice Report (2000 words)	Coursework	50%	<input type="checkbox"/>	Week 33	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Livestock Production Technology and Innovation

## Module Description

This module examines the principles and theories that underpin the concept of precision livestock management as applied to domesticated farm animals (e.g. pigs, poultry, sheep and cattle). The module focuses on the technology (sensors, networks, control systems) and logic (models, management rules) related to (i) intake and yield; (ii) welfare and stress; (iii) activity, behaviour and location; and (iv) management decisions. The technologies will be considered in the context of European and global agriculture, and how they can be adopted to achieve operational, husbandry environmental and economic benefits for farmers. To module will review current and potential issues affecting global livestock enterprises, and consider the development of new technologies.



INNA SOKHAN



# Livestock Production Technology and Innovation

## Intended Learning Outcomes

ILO1	Investigate, appraise and evaluate current and future issues affecting livestock enterprises
ILO2	Validate current Agri-Technologies or those that have the potential to be utilised successfully to resolve current issues affecting livestock enterprises by improving sustainable production and environmental diagnostic systems.
ILO3	Critically interpret scientific reports to determine the evidence needed to support the development of technology for the livestock industry considering the ability and the opportunities for cross-over in agri-tech between industries.

## Assessment Components

Component	Type	Weight	Acc' Req?	Submission Week	ILOs Assessed				
					1	2	3	4	5
Essay - technical evaluation (2000 words)	Coursework	80%	<input type="checkbox"/>	Week 33	☒	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Problem sheet (5 days to submit)	Coursework	20%	<input type="checkbox"/>	Week 35	<input type="checkbox"/>	☒	☒	<input type="checkbox"/>	<input type="checkbox"/>

Questions & thank you