Module Title:	Module Code: EV7132	Module Leader:
Introduction to Sustainability and Adaptation	Level: 7 Credit: 15 ECTS credit: 7.5	Tim Coleridge
Pre-requisite: none	Pre-cursor: none	
Co-requisite: none	Excluded combinations: none	Suitable for incoming study abroad? N
Location of delivery: CAT and online – blended delivery		

Summary of module for applicants:

This module will introduce students to the key skills and concepts required to fully consider to sustainability and adaptation issues It will enable students to:

Contextualize society responses to environmental change

Establish the overarching concepts and theoretical grounding in sustainability, resilience and transformational adaptation needed for the programme of study.

Establish baseline study skills competence and scientific/social science literacy.

Appreciate the implications of sustainable provision and security of services such as homes, water, energy, food and transport.

Main topics of study:

- Greenhouse gas impacts and options
- Mitigation and adaptation needed to respond to environmental change and weather extremes
- Sustainability issues relating to both consumption and the provision of services such as housing, food and energy.
- Fundamentals of social and economic transformation models including non-growth economics, social value, behaviour change and systemic change.
- Interrelationships of climate mitigation and adaptation, biodiversity, equity, wellbeing and prosperity.

This module will be able to demonstrate at least one of the following examples/ exposures

Live, applied project ☐
Company/engagement visits ☒
Company/industry sector endorsement/badging/sponsorship/award ☐

Learning Outcomes for the module

- *Digital Proficiency - Code = (DP)*
- *Industry Connections - Code = (IC)*
- *Social & Emotional Intelligence - Code = (SEI)*
- *Physical Intelligence - Code = (PI)*
- *Cultural Intelligence - Code = (CI)*
- *Community Connections & UEL Give Back - Code = (CC)*
- *Cognitive Intelligence – Code = (COI)*
- *Enterprise and Entrepreneurship (EE)*

At the end of this module, you will be able to:

Knowledge

1. Form a synthesis of knowledge in relation to current environmental change and range of responses; (IC) (COI)

Thinking skills

2. Identify interactions, co-impacts and co-benefits across key areas of importance in responding to environmental change (SEI) (CID)

Subject-based practical skills

   3. Access and analyse scientific academic material (COI) (DP)

Skills for life and work (general skills)

4. Apply a critical approach in considering sustainability and adaptation practices (SEI)

5. Effectively communicate to both peers and a wider audience (SEI) (DP) (CI)

Teaching/ learning methods/strategies used to enable the achievement of learning outcomes:
For students studying onsite and by distance learning:

The factual content of the module is taught through lectures, seminars, practical workshops, presentations, demonstrations and tutorials, and throughout this process an active exchange of views and opinions is encouraged. Students have access to MS Teams where they can access recorded and written support material, meet with their peers and a tutor to discuss any academic issue. Both theoretical and practical aspects are covered both onsite and through interactive sessions on Teams.

There is a formative learning element to the module to allow the students to receive critical feedback on their work without the pressure of marked assessment.

For distance learning (DL) students, learning will be supported through streamed and recorded Internet-based lectures (of the onsite lectures), situation related practical exercises, seminars and tutorials.

Lectures onsite and through MS Teams highlight key concepts, models and frameworks, and integrate additional resources (such as journal articles). They encourage deep learning through the use of self-assessment questions which encourage students to engage with the topic, to help students understand new topics and skills.

Assessment methods which enable students to demonstrate the learning outcomes for the module;	Weighting:	Learning Outcomes demonstrated:
Critique review (3000 words max)	100%	1,2,3,4,5

Reading and resources for the module:

Core

Pelling M. (2011) Adaptation to Climate Change, From resilience to transformation; Routledge, Abingdon. (*)

Pelling, M O'Brien, K. and Matyas, D (2015) Adaptation and transformation. Climatic Change, 133(1), pp. 113-127.

Recommended

Adger, W.N., Lorenzoni I., and O'Brien K.L., (2010) Adapting to Climate Change, Thresholds, Values, Governance, Cambridge University Press, Cambridge.

Adger, W.N., Paavola J., Huq S., and Mace, M.J., (2005) Fairness in Adaptation to Climate Change, MIT Press, Cambridge MA.

Castree, N., Hulme, M. and Proctor, J. D. (2018) Companion to Environmental Studies. Routledge.
Ensor J. and Berger R. (2009), Understanding Climate Change Adaptation, Lessons from community-based approaches, Practical Action Publishing, Rugby.

Lonsdale, K., Pringle, P. & Turner, B. (2015). Transformative adaptation: what it is, why it matters & what is needed. UK Climate Impacts Programme, University of Oxford, Oxford, UK

Roaf, S. (2009) Adapting buildings and cities for climate change : a 21st century survival guide. 2nd ed. Oxford: Elsevier. (*)

Schipper E.L.F., and Burton I., editors. (2008), The Earthscan Reader on Adaptation to Climate Change, Earthscan, London.

Further relevant journals, websites and other relevant resources will be provided within reading materials that are made available for the module.
(*) Available as an e-book

Provide evidence of how this module will be able to demonstrate at least one of the following examples/ exposures

Live, applied project

Company/engagement visits – In spite of being an introductory module with a focus on induction, and theoretical underpinning for later modules, this module will include visiting lecturers from appropriate commercial or community bodies
In 2021 this included Nicholas Falk from URBED (Urban and Economic Development) Ltd, and Dr Haseeb Irfanullah, a biologist-turned-development practitioner, and an independent consultant on environment, climate change, and research systems in Bangladesh.

Company/industry sector endorsement/badging/sponsorship/award

Indicative learning and teaching time (10 hrs per credit):	Activity
1. Student/tutor interaction:	Lectures, seminars, tutorials, presentations, practicals / demonstrations **30 hours**

2. Student self learning and research time:	Seminar reading and preparation, assignment preparation, background reading, and research activities. **120 hours**	
Total hours:	**150 hours**	

Assessment Pattern for Unistats KIS (Key Information Sets)	Weighting:
Coursework *(written assignment, dissertation, portfolio, project output)*	
Practical Exam *(oral assessment, presentation, practical skills assessment)*	
Written Exam	

HECoS Code:	
UEL Department:	