

Module Code:	7501CATSCI	Version No:	1
		Updated on:	
Module Title:	Sustainability and Adaptation: concepts and planning	Authorisation:	
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School:	NSP	Archived Date:	
		Dormant Date:	
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Module Leader

Name: TIM COLERIDGE

E-mail: tim.coleridge@cat.org.uk

Level: 7Credit Rating: 30Indicative Time Allowances (hours):

Lec	Tut	Sem	Prt	Wrk	Fld	Other	Deliv. Tot	Exam	Private Study	Tot. Learning Hours
30	0	30	5	0	0	0	65	0	120	185

Semester Delivery: (Select one only)Semester 1 Semester 2 Runs twice (S1 & S2) Year Long Summer Other Pre-requisites: n/aRecommended Prior Study: n/aCo-requisites: n/aBarred Combinations: n/aAims:

- a) Contextualize sustainability and transformational adaptation in view of current environmental changes.
- b) Appreciate the interconnectedness of the factors involved.
- c) Make informed decisions during the adaptation transformation planning process, despite uncertainties.

- d) Discern the wider implications of transformational adaptation on social structures, ecology, land use, trade, resource management, energy provision, governance, health and economic systems through a critical exploration of the primary considerations related to sustainability and environmental change.
- e) Form a thorough understanding of adaptation transformation planning through facilitated self-reflective practical team exercises.

Learning Outcomes:

1. Form a synthesis of knowledge related to the current discourse around transformational adaptation and mitigation strategies, vulnerability, adaptive capacity, ecosystem services and resilience building in relation to current environmental change;
2. Conceive the nature of the interconnectedness of the numerous interactions related to transformation adaptation, sustainability and environmental change;
3. Critically analyse the implications of transformational adaptation to environmental change in the wider context of sustainability, equity and well-being provision;
4. Evaluate the ethical dilemmas when problem-solving and decision-making, in a general context and in relation to current environmental change;
5. Effectively communicate (in written and oral forms) to both peers and a wider audience;
6. Reflect critically on team working experience in order to inform self-development and confidence.

Learning Activities:

This module will comprise a series of lectures and activities covering a broad range of sustainability topics in the first teaching week and will be assessed by writing a blog and report, and reviewing critically a published paper on the topic of food and natural resources. The second teaching week learning is largely delivered through group work seminars whereby students work together throughout the week to develop adaptation solutions to climate and environmental change scenarios.

Distance learners will gain access to the lectures via the VLE, take part in topic-based and study skill seminars with a tutor via Skype, and carry out the same assessment tasks. During the second teaching period in November, students take part in extended group-work discussions to develop solutions to future climate and environmental change scenarios. These sessions will be mediated by a tutor.

Outline Syllabus:

Environmental change, energy provision, built environment adaptation possibilities (new build & renovation), ecosystem services and biodiversity enhancement, atmospheric carbon reduction, mechanisms of environmental change, geo-engineering, transformational adaptation (vulnerability, risk, resilience and adaptive capacity), health and well-being implications of environmental change, water security and waste, food security, materials, economic fundamentals and non-growth economic systems, transportation, land use, adaptations needed for climatic changes and weather extremes, population growth, and migration implications for transformational adaptation and sustainability.

Assessment Details:

1. Reflective Account (500 words max): 10%
2. Blog article (1,000 words max): 15%
3. Adaptation Report (3,000 words max): 50%
4. Critique Review (1,500 words max): 25%

Weighting between E and CW: 0% 100%

Relationship between learning outcomes and assessment tasks:

	Learning Outcomes					
	1	2	3	4	5	6
Component 1						X
Component 2	X	X	X		X	
Component 3	X	X	X	X		
Component 4	X	X	X			

Minimum Pass Mark (%): 50

Module Notes:

This module is available onsite or at distance.