

Module Code:	7504CATSCI	Version No:	1
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Module Title:	Land and Resource Management in Cities	Authorisation:	
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Module Leader

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Level: 7Credit Rating: 15Indicative Time Allowances (hours):

Lec	Tut	Sem	Prt	Wrk	Fld	Other	Deliv. Tot	Exam	Private Study	Tot. Learning Hours
19	0	3	2	6	0	0	30	0	120	150

Semester Delivery: (Select one only)Semester 1 Semester 2 Runs twice (S1 & S2) Year Long Summer Other Pre-requisites:Recommended Prior Study:Co-requisites:Barred Combinations:Aims:

- a) Develop an overview comprehension of current research and discourse concerning adaptation planning and sustainability of cities and communities, and to place this understanding into current and future environmental contexts.
- b) Gain a critical understanding of key elements, infrastructures, maintenance issues, energy budgets, material flows, waste disposal, transportation and social dynamics that underlie the development and management of resources in cities.

- c) Critically assess the complex factors that influence the provision of sustainability and adaptation planning within urban and community-focused environments.
- d) Recognise and rationalise the prospects for innovative research and practice for city and community regeneration in the built environment.
- e) Show critical awareness of the complexity of political and economic opinions, ethical dilemmas, constraints and interactions that influence environmental policy and action, from international to local levels, in order, and the influence of political and economic aspects on environmental change, sustainability and transformational adaptation planning and policy.
- f) Have a thorough understanding of historical political and economic transformational changes and the influence of these on potential outcomes of political and economic system transformations required for sustainability delivery and adaptation planning.

Learning Outcomes:

1. Apply a critical understanding of the issues and their interconnections concerning the development of sustainable communities and cities within the context of adaptation and sustainability in the built environment; and within different geographical contexts.
2. Show critical awareness of the influences and interconnectedness of the key political, social, economic influences on urban development; and the human relationship to material and energy systems within the context of the global ecosystems;
3. Critically evaluate theory and examples of innovations potentially useful in the transformation of urban environments towards sustainability;
4. Holistically appraise the processes of urban development, the technical issues challenging communities and cities at the infrastructure scale, including materials; energy; water; waste, communications, transportation and green infrastructure; and develop planning strategies for future sustainable development;

Learning Activities:

This module will comprise a series of lectures covering and interactive seminars and a short practical activity.

Distance learners will have access to the lecturers via the VLE and will take part in group seminars to debate the lecture topics via Skype. The practical activity will be available as video clips and a written outline of the aims, methods and outcomes.

Outline Syllabus:

- How cities and communities will be influenced by the particular challenges and opportunities presented by adopting a sustainability and adaptation approach in preparation for the significant challenges of environmental change.
- Qualities and purposes of community spaces as part of the cultural urban landscape will be studied from a sustainability and adaptation planning perspective.
- Environmental impacts, sustainability and adaptation issues facing the urban environment will be analysed according to its material, energy, infrastructure, maintenance and transportation demands.
- Urban Heat Island effects and biodiversity planning will be considered with urban regeneration and transformations required to address climate changes.

- The supply of goods and services and the production, control and management of wastes and pollution.
- The urban and community form will be analysed for the potential design, social structure and practical changes required under an ethos of sustainability and adaptation.
- The current status of urban and community statutory development control and planning and the enforcement of sustainable practices and key environmental legislation and compliance measures will be discussed, and community-based initiatives and grass-roots strategies evaluated.
- Students will consider sectoral best practice for the assessment of environmental impacts at strategic and local levels.
- Methods, tools and programmes of environmental management and assessment will be reviewed, along with environmental key performance indicators aimed to deliver environmental performance improvements.

Assessment Details:

1. Coursework: Essay (2,400 word max). 80%
2. Coursework: Individual 10-minute presentation (600 words equivalent). 20%

Weighting between E and CW: 0% 100%

Relationship between learning outcomes and assessment tasks:

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

Minimum Pass Mark (%): 50

Module Notes:

This module is available to be studied on-site or at distance