

Module Code:	<b>7507CATSCI</b>	Version No:	2
		Updated on:	July 2018
Module Title:	<b>Sustainable Materials in the Built Environment</b>	Authorisation:	
		Validation Date:	01/08/2018
		Date version starts:	
School:	NSP	Archived Date:	
		Dormant Date:	
FOR OFFICE USE ONLY			

Module Leader

Name: Louise Halestrap  
E-mail: louise.halestrap@cat.org.uk

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

Lec	Tut	Sem	Prt	Wrk	Fld	Other	Deliv. Tot	Exam	Private Study	Tot. Learning Hours
10	1	4	15	0	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: n/aRecommended Prior Study: n/aCo-requisites: n/aBarred Combinations: n/aAims:

- a) Critically evaluate the environmental impacts, wider social and health implications, in-use performance and usability of materials, in order that students can then apply well informed and sound judgement to the choice and use of materials in practice when applying adaptation and sustainability principles within the built environment.

- b) Obtain a comprehensive understanding of how environmentally sustainable materials can offer creative opportunities for the use and development of high quality, healthy, low environmental impact, effective, and long lasting products.
- c) Critically discern how to use the advantages and overcome or minimise the disadvantages associated with the use of environmentally sustainable materials under an adaptation and sustainability ethos.
- d) Evaluate the implications of availability, cost, physical properties and construction methods of environmentally responsive materials for ease of use, mainstream acceptance, design limitations, logistical considerations, and economic viability in relation to the built environment.

#### Learning Outcomes:

1. Have a deep and critical awareness to the environmental assessment and potential use of materials as regards to their environmental impact, social and health implications and sustainability under an adaptation transformation ethos;
2. Develop comprehensive understanding of the interdependency of all the aspects of sustainable building materials related to sustainability and adaptation planning as applicable to the use of materials and resources.
3. Critically evaluate and assess theories and designs related to environmentally responsive materials under a transformational adaptation ethos, and use information sourced from multiple resources to review the properties and attitudes towards environmentally sustainable materials.
4. Display mastery in the communication of complex information about methods to assess sustainable materials to a broader, non-specialist, audience.

#### Learning Activities:

This module will comprise lectures and be supported by a range of practical activities.

Distance learning students will have access to all the lectures via the VLE, and videos and written descriptions of the practical activities

#### Outline Syllabus:

#### Indicative References:

---

#### Assessment Details:

1. Coursework: Essay (2,400 word max): 80%
2. Coursework: Poster (600 words eq.): 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 onsite or as distance learning.