Module Proforma

Approved, 2023.01

Summary Information

Module Code	7507CATSCI
Formal Module Title	Sustainable Materials in the Built Environment
Owning School	Biological and Environmental Sciences
Career	Postgraduate Taught
Credits	15
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Colm Bowe	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Centre for Alternative Technology

Learning Methods

Learning Method Type	Hours
Lecture	10
Practical	15
Seminar	4
Tutorial	1

Module Offering(s)

Offering Code	Location	Start Month	Duration
APR-PAR	PAR	April	12 Weeks

Aims and Outcomes

Aims	a) Following an interdisciplinary approach, 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

After completing the module the student should be able to:

Code	Description
MLO1	Demonstrate a deep and critical awareness of environmental assessment and potential use of materials as regards to their environmental impact, social and health implications and sustainability under an adaptation transformation ethos;

MLO2	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;
MLO3	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;
MLO4	Effectively communicate complex information about methods to assess sustainable materials to a broader, non-specialist, audience.

Module Content

Outline Syllabus
Details of syllabus required

Module Overview

Additional Information
This module is available onsite or via distance learning.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Essay	Essay (2,400 words max.)	80	0	MLO1, MLO2, MLO3
Report	Individual visual presentation	20	0	MLO4, MLO2