

SUSTAINABLE PROCESSES

INTRODUCTION TO THIS MODULE

2018-2019

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SUSTAINABLE PROCESSES

1. Lecturer introduction

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2. Students introduction

What is your name?

What do you expect for this module?

Any other interesting comments?



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3. Initial Survey

Answer the questions in the sheet given

Answer as many questions as you can.

Be as brief as possible.

It is not compulsory, but can help to the module organisation.



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Aims of this module

This Module seeks to further develop the candidate's awareness of sustainability in its many facets, and to develop the student's knowledge of environmental conservation from a sustainable development point of view with an emphasis on the importance of conserving limited resources.



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Learning Outcomes

- make informed decisions and formulate policies concerning sustainable development
- critically analyse the demands that the built environment places on the natural environment
- contextualise and critically evaluate current key trends with regard to sustainable development



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Contents

- Sustainable Development Goals
- Well-being of Future Generations (Wales) Act
- Management Process and Project Management
- Resources management
 - Natural resources, energy and carbon emissions. General concepts
 - Material flow analysis and Whole life cycle of buildings.
 - Waste management and circular economy
- Energy management
 - Low, Passive, Zero and Plus Energy Buildings
 - Energy efficiency and energy rating
 - Energy consumption and saving in buildings.



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Programming

Lectures

31st January to 2nd May 2019

Assignment

2nd May 2019

Exam

Date to be confirmed



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Lesson explanation

Lectures

Theoretical explanation

Case studies

Practical exercises

Work individually or by groups

Assessment and discussion



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Assessment

Assignment	50%
Exam	50%
Total marks	100%



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Assessment

Assignment

Report

Report of about 1500 words

Deadline. 2nd May 2019



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Assessment

Exam

Multiple choice test

Length 1 hour