

Sustainable Environments ARCT 1049 + Sustainable Construction in Architecture BUIL 1130

Within your Teams, Discuss debate investigate record construct enquire make draw test explore, organise, edit and present your work relating to the Friday lecture series (the two above named courses) in the form of a book.

The bound book should be A5 (landscape) or Square (narrow side of A4)

You are required to submit two copies of the bound book at 10am on Friday 13th May

All individual work should contain the authors name in small text at the bottom corner of each page.

The books should be prepared, designed and presented in a professional manner, as if to be prepared for sale.

BOOK STRUCTURE AND CONTENT

The book should be organised in two distinct chapters relating to the four courses

CHAPTER 1 SUSTAINABLE ENVIRONMENTS

INTRODUCTION (The perilous state of the planet)

As a Team prepare an introduction (1800 WORDS total) about the state of the planet and the part humans have played in creating such an unsustainable situation. (make reference to population growth, dwindling resources, climate change, food, water, energy, pollution, the importance of biodiversity etc)

Organise this introduction such that each team member would contribute approximately 300 words on a specific issue)

GLOBAL FOOTPRINT

Each team member should present a commentary on their personal GLOBAL FOOTPRINT making reference to their existing lifestyle habits, speculating and illustrating how a different lifestyle would create a positive change.

SHELTER CONSTRUCTION DETAILS

Each student should prepare and present the construction details of their shelter project making specific reference to the following: - environmental, climatic, structural, health and safety, material choices, expected lifespan, issues.

(Note PDA1 students should each choose a different "built" shelter)

THE LECTURES

Each Student in the team should write a short (800 words) summary (illustrated with a maximum of four images) of one of the Friday lectures.

Each student should choose a different lecture from other team members.

CHAPTER 2 SUSTAINABLE CONSTRUCTION IN ARCHITECTURE

STRUCTURE AND MASS CONSTRUCT

Design + Construct a structure to support SIX FULL SMALL SQUARE Volvic Water Bottles 500mm off the ground. (See separate brief).

Record your construction (photographs and / or drawings) and annotate to explain the structural principles.

STRUCTURAL MODEL OF FINAL DESIGN PROJECT

Photographed and annotated to illustrate how the structure is working.

1:20 SECTION OF FINAL DESIGN PROJECT

A section through the one edge of the project from Roof to ground, annotated to explain all the designs environmental and structural and constructional aspects.

THE LECTURES

Each Student in the team should write a short (800 words) summary (illustrated with a maximum of four images) of one of the Friday lectures.

Each student should choose a different lecture from other team members.

Friday 13th May 2011 10am Hand in of two copies of Complete Book. (Make sure you keep a copy for yourself!!!)

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Note only one copy will be returned as we intend to keep one copy to show next years students. It is advised that each team produces enough copies so that each student has a complete book for their own record.