1. KentVision Code and title of the module

ARCH5460 Technology 4

## Division and School/Department or partner institution which will be responsible for management of the module

Arts and Humanities, Kent School of Architecture and Planning

## The level of the module (Level 4, Level 5, Level 6 or Level 7)

Level 6

## The number of credits and the ECTS value which the module represents

30 credits (15 ECTS)

## Which term(s) the module is to be taught in (or other teaching pattern)

Autumn or Spring

## Prerequisite and co-requisite modules and/or any module restrictions

None

## The course(s) of study to which the module contributes

Compulsory to the following courses: MArch (Master in Architecture)

## The intended subject specific learning outcomes. On successfully completing the module students will be able to:

* 1. An understanding of the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals
  2. An understanding of the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design.
  3. A knowledge of principles associated with designing optimum visual, thermal and acoustic environments.
  4. A knowledge of systems for environmental comfort realised within relevant precepts of sustainable design.
  5. Skills to critically examine the financial factors implied in varying building types, constructional systems, and specification choices, and the impact of these on architectural design.
  6. Skills to understand the cost control mechanisms which operate during the development of a project.
  7. An ability to evaluate materials processes and techniques that apply to complex architectural designs and building construction, and to integrate these into practicable design proposals.
  8. A critical understanding of how knowledge is advanced through research to produce clear, logically argued and original written work relating to architectural culture, theory and design.
  9. An ability to apply the principles of evidence based design to the evaluation of environmental design strategies.
  10. Understanding the challenges of integrating building fabric (materials), services and control regimes into a unified environmental design strategy.

## The intended generic learning outcomes. On successfully completing the module students will be able to:

9.1 Research skills and analytical skills in appraising technologies

## A synopsis of the curriculum

The aim of the module is to promote a comprehensive understanding of environmental sustainability in the context of integrating structural systems, material and environmental controls with a focus on net zero policy.. The lecture course covers the following areas: architecture from a global perspective, sustainability criteria in construction and environmental design, benchmarking and legislation in technical design, integration of structure, services and passive environmental features and its technical challenges, and reviewing the performance of technical design solutions. The lectures will also look at the implications of the technology from socio-cultural and economic perspectives.

## Reading list

## The University is committed to ensuring that core reading materials are in accessible electronic format in line with the Kent Inclusive Practices.

## The most up to date reading list for each module can be found on the university's [reading list pages](https://kent.rl.talis.com/index.html).

## Contact Hours

Private Study: 250 hours

Contact Hours: 50 hours

Total: 300 hours

## Assessment methods

* 1. Main assessment methods

Technical Design Portfolio (100%)

13.2 Reassessment methods

Like for Like

## Map of module learning outcomes (sections 8 & 9) to learning and teaching methods and methods of assessment

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 8.10 | 8.11 | 9.1 |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Private Study** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |  |  | **X** |
| Lectures | **X** | **X** | **X** | **X** | **X** | **X** |  |  |  | **X** | **X** |  |
| Tutorials/Seminars | **X** | **X** | **X** | **X** | **X** | **X** |  |  |  | **X** | **X** |  |
| Crits/presentations | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |  |  |
| Technical design portfolio | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |

## Inclusive module design

The Division recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

## Campus(es) or centre(s) where module will be delivered

Canterbury

## Internationalisation

Lectures, seminar teaching and tutorials will continue to draw on international source materials for historical and contemporary examples and theories of architecture and design.

**DIVISIONAL USE ONLY**

**Module record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

| Date approved | New or major/minor revision | Start date of delivery of (revised) version | Section revised  (if applicable) | Impacts CLOs |
| --- | --- | --- | --- | --- |
| 17/01/2024 | Minor | 2024/25 | 10, 12-14 |  |
|  |  |  |  |  |