

Liverpool John Moores University

Title: Technology & Practice 3
Status: Definitive
Code: **6131ARSRI** (124584)
Version Start Date: 01-08-2021

Owning School/Faculty: Liverpool School of Art & Design
Teaching School/Faculty: Liverpool School of Art & Design

| Team | Leader |
|-----------|--------|
| Ian Wroot | Y |

Academic Level: FHEQ6
Credit Value: 20
Total Delivered Hours: 60
Total Learning Hours: 200
Private Study: 140

Delivery Options

Course typically offered: Summer

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 14 |
| Seminar | 20 |
| Workshop | 26 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|-----------|-------------------|---|---------------|---------------|
| Artefacts | AS1 | Thesis Project Technical Resolution (drawings). | 80 | |
| Test | AS2 | Practice Test. | 20 | |

Aims

The aim of this module is to build on the understanding and knowledge of technical realisation of buildings explored in level 5. This is achieved through creation of a coherent integrated environmental strategy for the CDP building including appropriate structural resolution and considered thinking in materiality and construction. The module continues from level 5 in further informing students in

matters of environmental design, structural design, materials choice and properties, the construction of buildings on site, and to introduce essential knowledge and discussion concerning the practice of Architecture. Emphasis will be placed on demonstrating in-depth skills in both thematic-led design and proven technical competence that are graduate standard and which graduates will confront within offices in their fourth year.

Learning Outcomes

After completing the module the student should be able to:

- 1 Investigate and apply appropriate methods for creating optimum indoor environments.
- 2 Propose, critically analyse and cogently evaluate alternative environmental, structural, constructional and material strategies.
- 3 Synthesise appropriate building technologies into design projects, with judgement of their integration and following sustainable design principles.
- 4 Apply understanding of building user's requirements and compliance with legislation in the context of building designs.
- 5 Relate the roles of professional practice procedures, legislation and policy in the context of the procurement of buildings.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

| | | | | |
|-----------|---|---|---|---|
| Artefacts | 1 | 2 | 3 | 4 |
| Test | 5 | | | |

Outline Syllabus

The module incorporates lecture series on environmental design and technology, complex structural systems, Computer Aided Design and Professional Studies. Specialist Technology Workshops are held throughout the module in environmental intent, energy and structural strategies and construction. The lectures and workshops have an emphasis on integration of these technologies into design work and in support of design. During this year students are directed to focus on a developing a range of IT and CAD skills closely related to the architectural profession, with reference to established and emergent technologies used in industry.

Learning Activities

Lectures are delivered throughout the semester. Three full day seminar/workshops with predetermined objectives and assessed outcomes relating directly to the concurrent design module. There are regular CAD workshops throughout the semester. The assessment tasks of this module relate directly to design work

undertaken in module 6123ARSRI.

Notes

Emphasis will be placed on students creating a coherent integrated environmental strategy for their CDP building, appropriate structural resolution, and considered thinking in materiality and construction.