

Technology and Practice 2

Module Information

2022.01, Approved

Summary Information

Module Code	5531IDSRI
Formal Module Title	Technology and Practice 2
Owning School	Liverpool School of Art & Design
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Sri Lanka Institute of Information Technology

Learning Methods

Learning Method Type	Hours
Lecture	25
Workshop	12

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-PAR	PAR	April	12 Weeks

Aims and Outcomes

Aims	The aim of this module is to methodically inform students in the topics of environmental design, structural design, materials choice and properties, Computer Aided Design, and the construction and modification of buildings. The module builds on the broad introduction given at Level 4, by focussing on the technical realisation of buildings through analysis, design, detailing, and site construction and supervision.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Outline the proposed project in the context of comparable fields of investigation.
MLO2	2	Contextualise their project with reference to relevant precepts of sustainability.
MLO3	3	Articulate succinctly through writing, drawings and diagrams an evaluation of their technological inquiry/ies.
MLO4	4	Demonstrate understanding of the role of the architectural designer, other professionals and legislation in the procurement of buildings.
MLO5	5	Describe the key issues in the management of design practice and building projects.

Module Content

Outline Syllabus	Lectures series are presented on the technology of environmental design including energy supply, mechanical systems and building services, and on artificial lighting, and on acoustics. Basic structural mechanics theory is introduced including structural rules of thumb. Additional lectures on the detailed design of structural elements in timber, brick, concrete and steel are included. A series of construction lectures is given continuing from the lectures in Level 4 and dealing with the 'making' of architecture. The lectures are intended to aid the technical realisation of work being produced in the design studio. The module also has a number of Professional Studies lectures. The aim is to introduce students to the framework of professional procedures and legal responsibilities within which architectural designers work. CAD Workshops give students the key skills necessary to represent their design ambitions. The syllabus covers techniques in presentation, architectural drafting, 3d modelling using both CAD and graphics methods, as well as the interface with CAD/CAM and rapid prototyping technology. A range of software is used in the key categories of CAD, BIM, environmental analysis and graphics.
Module Overview	
Additional Information	This module supports the design modules, challenging students in the technical aspects of their design development.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Report	70	0	MLO1, MLO2, MLO3
Essay	Essay	30	0	MLO4, MLO5

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Ian Wroot	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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