Technology and Practice 1

Module Information

2022.01, Approved

Summary Information

Module Code	4531IDSRI
Formal Module Title	Technology and Practice 1
Owning School	Liverpool School of Art & Design
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
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	24
Workshop	24

Module Offering(s)

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

Aims and Outcomes

Aims	This module aims to introduce the role of technology in the process of architectural design from commencement to realisation, as it has existed historically as well as in recent buildings of note. Accent is placed on innovatory thinking and on the present technical and practical horizons possible within professions viewed internationally. The module will give students grounding in the challenges of building high quality architecture.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Investigate alternative structural, constructional and material strategies in the context of their building project.
MLO2	2	Apply and evaluate principles associated with designing optimum internal environments in the context of their building project.

Module Content

Outline Syllabus	Case studies of historically important buildings or building typologies illustrating key advances in building technology are presented. Each case study is placed within its political, social and cultural context. The lectures are also intended to aid the technical realisation of work being produced in the design studio. A course of illustrated lectures is given which introduces the role of the architectural designer and the making of long-lasting buildings. Each building used in the lectures is analysed and accent placed on innovatory thinking and on the technical and practical horizons at work within the architectural design professions as evidenced in these constructions. Lectures are also presented by the design staff illustrating the story of one of their own building projects taking the students through its conception, detailed design and construction phases. A further lecture series introduces basic concepts and practices in the sustainable and environmental design of buildings. An introduction to building physics and the exploration of environmental elements that influence design development leads into lectures exploring more detailed sustainable and environmental design issues relating to heating, lighting, ventilation and associated systems. The module also includes lectures on construction including the main constructional systems widely used for domestic buildings. A series of CAD Workshops give students the key IT skills needed to communicate effectively in a design environment, such as information gathering, image organisation and manipulation in the context of design. During this year students are also introduced to the principles of 2d and 3d design in an IT rich environment.
Module Overview	
Additional Information	The module will give the student a grounding in the challenges of building high quality architecture and begins to make connections between the technical and the design aspects of architecture. There are two assignments for this module: an investigation and report on technical aspects of the current design project, one on the lighting of the building and one on its structure and construction. The module provides a sound theoretical and practical foundation to build on during Years 2 and 3.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Report 1	50	0	MLO1
Report	Report 2	50	0	MLO2

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