



Course Syllabus

Course Code	Course Title	ECTS Credits
INT-112	Materials Workshop	4
Prerequisites	Department	Semester
None	Architecture	Spring
Type of Course	Field	Language of Instruction
Required	Interior Design	English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Kika Ioannou Kazamia	1 st
Mode of Delivery	Work Placement	Co-requisites
Face-to-face	N/A	INT-102

Course Objectives:

The main objectives of the course are to:

- Introduce ideas of matter, form and structure
- Examine the main properties and characteristics of materials
- Carry out a workshop class, involving hands-on, empirical, experimentation with different materials and forming processes
- (casting, assembling, extruding, converting, mixing, fracturing etc);
- Examine and experiment with types of structural form: solid, membrane, hybrid, skeletal, surface etc
- Experiment with how materials can be combined to form composite elements
- Experiment with how materials can be manipulated to give them other physical qualities (stronger, more porous, less brittle...)

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Identify material properties and be aware of the structural and 'workable' qualities of these materials
2. Demonstrate knowledge of a wide range of forming techniques (and have technical competency in some of these techniques)
3. Practice on how materials can be manipulated, worked and applied
4. Differentiate between what is suitable to be used a skin and what can be used as mass
5. Experiment with combining materials to create new composites
6. Experiment with combining materials to change their material characteristics
7. Compose and combine materials within making processes for models or installations.

Course Content:

- Introduction to module: Introduction to the types of materials.
- Ideas of form & matter
- Examination of properties and characteristics of materials: concrete –gypsum-wood-metal
- Workshop forming processes :
- casting, assembling, extruding, converting, mixing, fracturing
- Workshop : Skins
- Workshop : Skeletons

Learning Activities and Teaching Methods:

Studio class with lectures, projection of visual material, assignments (projects), individual instruction, students' work presentation , site visits and group discussions

Assessment Methods:

Classroom participation is assessed, as well as projects, assignments, reports, midterm and final exams

Required Textbooks / Readings:

Title	Authors	Publisher	Year	ISBN
Designing Interior Architecture: Concept, Typology, Material, Construction.	Leydecker, Sylvia,	Basel : De Gruyter.	2013	978-3-0346-1580-8

Recommended Textbooks / Readings:

Title	Authors	Publisher	Year	ISBN
Material Connexion	Anita Moryadas	Thames & Hudson	2005	13 9780500512449
Components and Systems: Modular Construction -	Staib, Gerald	Birkhauser	2008	3764386568

Design, Structure, New Technologies				
Material Matters: Architecture and Material Practice	Thomas, K. L.	Routledge	2007	020301362X
Architecture in the Digital Age: Design and Manufacturing	Branko Kolarevic	Taylor & Francis	2005	041538141X