

Computational Materiality for Sustainable Architectures and Comprehensive Skins

PROGRAM

PART I MASSING OPTIMIZATION FOR SUSTAINABLE ARCHITECTURES		
02 March	presentation	Course description
	lecture	Computational Materiality and Digital Craftmanships. Performance Design as a Scientific Research
	lab	Tools set up Course registration opens
09 March	lecture	Modeling Climate, Weather, Site, and Architectures. Green Metrics and Digital Optioneering in the Early Stage
	assignment presentation	Assignment #01 <i>Conceptual School Building Energy Assessment</i> Course registration ends
16 March	lab	Digital Optioneering Experimentation in the Early Stage.
21 March	files upload	Assignment #01 <i>Conceptual School Building Energy Assessment</i>
23 March	credit discussion	Assignment #01 <i>Conceptual School Building Energy Assessment</i>
PART II DESIGNING COMPREHENSIVE SKINS INCEPTION		
30 March	lecture	Human Comfort and Architectural Skins. Physical Factors, Conceptual Criteria, and Phsyscological Impacts
	assignment presentation	Assignment #02 <i>Personal taccuino for Proposal</i>
06 April	lab	Building Envelopes Morphogeneis based on Environmental Parameters. Diagrams, procedures, and manipulations
13 April	lab	Building Envelopes Morphogeneis based on Environmental Parameters. Diagrams, procedures, and manipulations
EASTER BREAK		
02 May	files upload	Assignment #02 <i>Personal Taccuino for Proposal</i>
04 May	credit discussion	Assignment #02 <i>Personal Taccuino for Proposal</i>
PART III DESIGNING COMPREHENSIVE SKINS DEVELOPMENT		
11 May	lecture	Technological solutions and digital simulations for comphrensive skins
	assignment presentation	Assignment #03 <i>Schematic proposal for approval</i>
18 May	lab	Conceptual prototyping for comphrensive skins
25 May	lab	Conceptual prototyping for comphrensive skins
01 June	lab	Conceptual prototyping for comphrensive skins
06 June	files upload	Assignment #03 <i>Schematic proposal for approval</i>
08 June	credit discussion	Assignment #03 <i>Schematic proposal for approval</i>
PART IV DESIGNING COMPREHENSIVE SKINS PROTOTYPING		
	assignment presentation	Assignment #04 <i>Envelope Prototype Manufacturing</i>
CLASS ENDS		
15 June	workshop & review	Envelope Prototype Manufacturing
22 June	workshop & review	Envelope Prototype Manufacturing
29 June	workshop & review	Envelope Prototype Manufacturing
EXAM		
16 July	files upload	Assignment #04 <i>Envelope Prototype Manufacturing</i>
18 July	credit discussion	Final Discussion and Grading