

INT314 - NEW MATERIAL INNOVATION

Course Title	NEW MATERIAL INNOVATION				
Course Code	INT314				
Course Type	Required				
Level	Advanced				
Year / Semester	3 rd Year / 5 th Semester				
Teacher's Name	Dr Anna Merry				
ECTS	6	Lectures / week	2	Laboratories / week	1
Course Purpose and Objectives	<p>The course aims to:</p> <ul style="list-style-type: none"> • Identify and debate on materials with an innovative reference. • Translate knowledge acquired within IND225 (Material Applications) to produce innovative materials and designs for a specific spatial setting. • Produce and experiment with a range of materials in order to construct prototype designs based upon a given theme. • Encourage self-assessment with advanced and complex problem solving within design, presentation and final material choices. 				
Learning Outcomes	<p>Students should be able to:</p> <ul style="list-style-type: none"> • Identify and discuss the use of various materials in relation to a given project brief. • Recognise the importance of in depth research in relation to the design of materials for a specific product area. • Examine historical and contemporary references as well as experimenting with alternative materials. • Enhance skills required for dealing with advanced and more complex problem solving in design. • Create visually exciting end products which have challenged students conceptual thought process, demonstrating the importance of materials. 				
Prerequisites	INT224	Required	Yes		
Course Content	Students are introduced to the design and manufacture of various materials for interior application through a series of illustrated lectures. The course is a				

	<p>combination of acquired skills developed from the lesson IND225 Materials and Applications and new knowledge gained through material innovation. Students work not only from taught material through lectures but through project work, assimilating the two to result in a 1:1 scale design outcome.</p> <p>Studio work is carried out involving the whole group and takes place within the whole spectrum of the duration of the course as this is allocated on the weekly schedule. Studio work also includes interim and final critiques.</p>
Teaching Methodology	<ul style="list-style-type: none"> • Extended project briefings • Visualising skills workshops • Demonstrations and discussions on critical parts of the subject • Exercises • Illustrated lectures • Group critiques • Student centred practical work • Personal research, realization and manipulation in project work
Bibliography	<ol style="list-style-type: none"> 1. Smart Materials in Architecture, Interior Architecture and Design, Axel Ritter, Birkhauser, (2007) 2. Materials and Interior Design, Lorraine Farrelly, Laurence King, (2012) 3. Interior Surfaces and Materials : Aesthetics, Technology, Implementation, Christian Schittich, Birkhauser, (2009) 4. Interior Spaces : Space, Light, Materials, Christian Schittich, Birkhauser, (2002) 5. Materials, Structures and Standards, Julia McMorrough, Rockport, (2006) 6. Material Innovation: Architecture, Andrew H. Dent, Leslie Sherr, Thames and Hudson, 2014 7. Material Innovation: Interior Design, Andrew H Dent, Thames and Hudson, 2017 <p>Dependent on the subject choice of the individual, a reading and reference list will be compiled individually to suit the students needs and requirements.</p> <p>Visual contemporary references in the form of magazines are required: Domus, Wallpaper, Ottagono, Mark, Icon, Frame, Interni,</p> <p>References should also include websites with suggestions of: www.worldarchitecturenews.com www.designboom.com www.arcspace.com</p> <p>Visual contemporary references in the form of online magazines www.dezeen.com, www.yatzer.com, www.dexigner.com, www.mocoloco.com</p>
Assessment	<ul style="list-style-type: none"> • Interim Critique 33% • Final Critique 33% • Final Assessment 34%

	Total: 100%
	<u>Note:</u> The assessment criteria for Interim/Final Critiques and the Final Assessment are: Design Intelligence 40%, Research and Methodology 20%, Experimentation and Analysis 20%, Time management and Presentation 20%
Language	English