

Module Specification

Module Summary Information

1	Module Title	Scales of Manufacture
2	Module Credits	40
3	Module Level	4
4	Module Code	ARC4017

5	Module Overview
<p>This module will introduce basic principles and considerations when designing for various scales of manufacture, helping you to develop an awareness of the impact of economies of scale on design thinking. The module will introduce fundamental strategies in designing for different markets and you will explore the relationships between scale, context and implementation.</p> <p>You will be introduced to design sectors, exploring lifestyle products and furniture, designer maker approaches, design for low volume to standardised mass production. You will enhance your understanding of how to develop physical solutions to varying contexts and develop approaches in identifying and selecting analogue/digital manufacturing or construction methods appropriate to a niche market.</p> <p>Digital and analogue studio and workshop-based projects will focus on design approaches from the perspective of a Product Designer, Furniture Designer and a Designer Maker. Undertaking specialist 'scale' projects will enable you to explore a range of design factors including production values, feasibility, costing, product lifecycle, design morality and global markets.</p> <p>This module provides our students with an opportunity to consolidate learning throughout Level 4; with an increased emphasis on making skills, CAD development, research skills, creative problem solving, self-organisation management, presentation skills, critical analysis and evaluation, decision-making and refinement. The module will provide a catalyst for further study opportunities at level 5 and will inform future design directions.</p>	

6	Indicative Content
<ul style="list-style-type: none"> Design projects exploring scales of manufacture supported by lectures/talks/demonstrations. CAD sessions related to scales of manufacture and presentation techniques. 	

7	Module Learning Outcomes
On successful completion of the module, students will be able to:	
	1 Identify manufacturing processes and/or construction methods appropriate to different scales of manufacture
	2 Interpret knowledge and understanding of different design approaches used in the development of products and furniture
	3 Utilise appropriate materials and production processes in response to a creative design brief
	4 Present 2D and 3D outcomes appropriately, utilising a variety of materials and techniques

8	Module Assessment		
Learning Outcome			
	Coursework	Exam	In-Person
1-4	X		
1-4	X		

9	Breakdown Learning and Teaching Activities	
Learning Activities	Hours	
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	140	
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	180	
Private Study (PS) includes preparation for exams	80	
Total Study Hours:	400	