

Module Specification

Module Summary Information

1	Module Title	Design Communication
2	Module Credits	20
3	Module Level	5
4	Module Code	ARC5036

5	Module Overview
<p>The main focus of this module is to enable you to develop more advanced CAD skills (SolidWorks) and use these in relation to the design process. As your skills develop you will be expected to utilise and correctly synthesise the SolidWorks program in line with industry recognised production methods and techniques. This will enable you to develop and realise designed concepts using digital technologies and to effectively communicate design intentions within the context of manufacturing and industry.</p> <p>As your understanding of the software develops you will become more able to communicate complex parts and assemblies using appropriate drawing conventions and British Standards. This will enable you to effectively align them to their intended production methods and requirements.</p> <p>Initially you will attend SolidWorks software sessions entirely focused on the learning, understanding, and development of advanced skills crucial to computer aided design (CAD).</p> <p>Sessions will establish how and where CAD can and should be used within the overall design development process. This module will be delivered alongside other studio modules and will enhance your technical understanding, realisation and communication of design output.</p> <p>The CAD sessions will involve tutor led direct instruction as well as in session independent learning. Physical artefacts and presentations will provide key knowledge relating to CAD manufacturing techniques and processes, and the use of digital manufacturing methods in industry.</p>	

6	Indicative Content
<ul style="list-style-type: none"> • SolidWorks CAD sessions related to design synthesis and industry recognised design communication techniques. 	

7	Module Learning Outcomes
On successful completion of the module, students will be able to:	
1	Utilise and apply technical knowledge to effectively communicate ideas and concepts within the context of design and modelling.
2	Evaluate the use of CAD & digital technologies in relation to manufacturing and industry.

8 Module Assessment			
Learning Outcome			
	Coursework	Exam	In-Person
1-2	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	50
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	110
Private Study (PS) includes preparation for exams	40
Total Study Hours:	200