Module Code	MEU23B10			
Module Name	3D Computer Aided Design			
ECTS Weighting ²	5 ECTS			
Semester taught	Semester 1			
Module Coordinator/s	Assistant Professor Daniel Trimble (<u>dtrimble@tcd.ie</u>)			
Module Learning Outcomes with reference to the Graduate Attributes and how they are developed in discipline	•			
	Graduate Attributes: levels of attainment To act responsibly - Choose an item.			
	To think independently - Choose an item. To develop continuously - Choose an item. To communicate effectively - Choose an item.			
Module Content	 Basic sketching 3D modelling (Basic and Complex) Assemblies Patterning Holes and fasteners Design Tables Engineering drawings (components + assemblies) 			

¹ <u>An Introduction to Module Design</u> from AISHE provides a great deal of information on designing and re-designing modules.

² TEP Glossary

Teaching and Learning Methods	The module is mostly focused on self-directed learning through the		
	completion of weekly 2-hour lab with a number of exercises. In addition,		
	there will be a 1 lecture per week. Notes and videos are available to		
	progress through the course via blackboard. Assessment will consist of		
	MCQs and in-class exams.		

Assessment Details ³ Please include the following: • Assessment Component • Assessment description • Learning Outcome(s) addressed • % of total • Assessment due date	Assessment Component Continuous Assessment	Assessment Description MCQ and in-class exams	LO Addressed all	% of total 100%	Week due
Reassessment Requirements Contact Hours and Indicative Student Workload ³	Continuous assessment Contact hours: 44 hours Independent Study (preparation for course and review of materials): Independent Study (preparation for assessment, incl. completion of assessment):				
Recommended Reading List	 No prescribed texts – class notes and instruction should suffice. The following texts may provide useful additional information: SolidWorks 2013 Bible, Matt Lombard, 1st Edition, ISBN-13: 978-1118508404 				

³ TEP Guidelines on Workload and Assessment

0	Introduction to Solid Modelling Using SolidWorks,
	William Howard, Joseph Musto, 10th Edition, ISBN-
	13: 978-0078021244.

 Introduction to Finite Element Analysis Using SolidWorks Simulation 2014, 1st Edition, ISBN-13: 978-1-58503-857-2

Module Pre-requisite		
Module Co-requisite		
Module Website		
Are other Schools/Departments involved in the delivery of this module? If yes, please provide details.		
Module Approval Date		
Approved by		
Academic Start Year		
Academic Year of Date		