

## UNIVERSITI TEKNOLOGI MARA DTC710: INTEGRATED MODELLING PROTOTYPE

Course Name (English)	INTEGRATED MODELLING PROTOTYPE APPROVED			
Course Code	DTC710			
MQF Credit	3			
Course Description	An introductory course that demonstrates the integration of Computer-Aided-Design (CAD) and Computer-Aided-Manufacturing (CAM). The course commences with a brief revision in the use and application of 3D software in the design profession. This is a study of modern prototyping and machining methods, teaching the use of specific software for converting 2D and 3D CAD drawing geometry directly			
Transferable Skills	demonstrate analytical skills using technology			
Teaching Methodologies	Lab Work, Demonstrations, Tutorial, Simulation Activity, Computer Aided Learning, Supervision			
CLO	CLO1 Constructs ideas quickly, accurately and efficiently with software tools that set the standard for outstanding design for consumer products  CLO2 Originates innovative consumer product models and addressing the unique creative requirements of the design workflow in line with production and manufacturing process  CLO3 Produces a quality of 3D design, collaborate effectively, ensuring that designs address both aesthetic properties and functional requirements			
Pre-Requisite Courses	No course recommendations			
Topics  1. Introduction to Alias and the Interface 1.1) n/a  2. Building with Primitives -				
2.1) n/a  3. Controlling Geon 3.1) n/a	netry			
4. Dimensional Accuracy 4.1) n/a				
5. Curve Tools 5.1) n/a				
6. 'Surface Tools NURBS Surface Structure 6.1) n/a				
7. Intersecting and 7.1) n/a	Trimming-			
8. Introduction to H 8.1) n/a	ardware Shade			
9. Sculpting NURBS 9.1) n/a	S Surfaces			
10. Projecting, Trim 10.1) n/a	ıming, and Detailing -			
11. NURBS Continuity, Align, and Surface Fillet 11.1) n/a				
<b>12.</b> Blend Curves and Blend Surfaces 12.1) n/a				

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**13.** Introduction to animating 13.1) n/a

**14. Students Final Assignment Development** 14.1) n/a

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Assessment Breakdown	%
Continuous Assessment	100.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Resource, Analysis & Design	20%	CLO1
	Assignment	Design Concept	20%	CLO2
	Assignment	Product Design Specification	20%	CLO3
	Assignment	Presentation (Final Assessment)	40%	CLO3

Reading List	Resources	BR0A1-000000-MZ82 2009, <i>Auto Desk Alias Design</i> , Autodesk, Inc. All rights reserved 2006, <i>Alias DesignStudio 13</i> , Sybex; Pap/Dvdr Fridolin T.Beisert 1913, <i>The basics of ALIAS STUDIO</i>	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

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