



UNIVERSITI TEKNOLOGI MARA

IDE414: COMPUTER AIDED INDUSTRIAL DESIGN I

Course Name (English)	COMPUTER AIDED INDUSTRIAL DESIGN I APPROVED	
Course Code	IDE414	
MQF Credit	2	
Course Description	<p>This course intended to introduce students to basic concepts of Computer-Aided Design, as they will be implementing on the personal computer. It is particularly also intended to meet the needs of students with little or no computer or CAD experience. Students will be introduce or will become more skillful on applying manual CAD and also in the computer production such as lettering, notation, geometric constructions, editing tools, drawing organization, multi-view drawings, dimensioning techniques, plotting, auxiliary views, section views, assembly drawings, blocks and other standard drafting procedures also the introduction to solid modeling. Students learn conversion from isometric (a single-angle-view) to orthographic (two or more straight views) and from orthographic to isometric visualization and perspective rendering.</p>	
Teaching Methodologies	Lectures, Lab Work, Demonstrations, Practical Classes, Tutorial, Listening Activity, Computer Aided Learning, Supervision	
CLO	<p>CLO1 Practice the basic concepts with the use of CAID in the design and manufacturing field.</p> <p>CLO2 Display basic knowledge, skills in CAID with the capability to read and interpret blue prints for manufacturing</p> <p>CLO3 Suggest 2D and 3D computer aided drafting with the requirements of good engineering drawings to be applied in their studio work.</p>	
Pre-Requisite Courses	No course recommendations	
Reading List	Reference Book Resources	<ul style="list-style-type: none"> • Ostrowsky 2011, <i>Engineering Drawing with CAD Application</i>, Ed., , Elsevier Inc. [ISBN:] • A.Yarmwood 2010, <i>Introduction to AutoCAD 2011 2D and 3D De</i>, Ed., , Elsevier Inc. [ISBN:] • Rozana Baharom 2010, <i>Pengenalan AutoCAD 3D</i>, Ed., , Synergy Media [ISBN:] • Syamsul Halim B. Wahab 2007, <i>AutoCAD 2007 Langkah Demi Langkah.</i>, Ed., , Venton Publishing (M) Sdn. Bhd. [ISBN:] • A.K. Chitale & R.C. Gupta 2008, <i>Product Design and Manufacturing, Fourth Edit</i>, Ed., , Prentice Hall of India Private Limited. [ISBN:] • F. E. Giesecke, A. Mitchell, H. C. Spencer, I 2003, <i>Technical Drawing-Twelfth Edition</i>, Ed., , Prentice-Hall, Inc. [ISBN:] • C. Jensen, J.D. Hesel, D.R. Short. 2002, <i>Engineering Drawing and Design-Sixth Edition.</i>, Ed., , McGraw-Hill [ISBN:] • Md. Nasir Abd. Manan 1995, <i>Lukisan Geometri.</i> , Ed., , Dewan Pestaka [ISBN:] • Thomas E. French, Charles J.Vierck, Robert J. 1993, <i>Engineering Drawing and Graphic Technology-In</i>, Ed., , McGraw-Hill, Inc
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	