


Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كليات المعرفة ALMAAREFA COLLEGES
Date		التاريخ	

Course Code & No	ENGR 202		رقم المقرر ورمزه
Course Name	Computer Aided Drafting		اسم المقرر
Credit Hours	2 (1+1+2)		عدد الساعات المعتمدة
Pre-requisite	ENGR 201		المتطلب السابق

General Description	توصيف عام
<p>Introduction to computer graphics; Basic mathematical functions for graphics; Basic of engineering drafting using computer software (such as AutoCad, Catia). CAD system examples; Generating basic sketch; layout; dimensioning; tolerance; sectioning and generating different views using computer aided drafting software; Assembly of components and generating bill of material; Detailed drawings including sections and assemblies</p>	

Course Objectives	أهداف المقرر
<p>The course aims to provide the knowledge and skills for computer aided drafting and design, CAD (Computer Aided Design) system, software such as AutoCAD.</p> <p>By the end of the course, each student should be able to</p> <ul style="list-style-type: none"> • Present the concept design in a better way using CAD software. • Learn a CAD program professionally. • Create the drawings of engineering components using computer programs. 	

Course Outlines	مفردات المقرر
<ul style="list-style-type: none"> • Introduction to Computer Aided Drafting, and graphics mathematical functions for drawing • Generating basic sketch layout using CAD software • Dimensioning and Tolerance • Sectioning and Generating Different Views. • Assembly Drawings • Bill of Material 	

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References	المراجع
<p>Required Textbooks Computer Aided Drafting and Design: Concepts and Applications; Donald D. Voisinet, Singapore : Gregg Division, McGraw-Hill, latest edition, ISBN-13: 978-0070675650</p> <p>Essential References Materials Engineering Drawing (with a primer on AutoCAD); Arshad N. Siddiquee, Delmar Prentice-Hall of India Pvt. Ltd, latest edition, ISBN 978-8120324404.</p>	