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University / Academy : Menoufiya University

College / Institute : Faculty of Electronic Engineering

Department : Electronics and Electrical Communications Engineering

Course Specification

1- Course basic information :		
Course Code: EC 125	Course Title: <i>Electronic Circuits Drafting</i>	Academic year: 2011/2012 Level (1) – Semester : 2
Faculty requirement	Teaching hours: Lecture <input type="text" value="2"/> Tutorial <input type="text" value="3"/> Lab <input type="text" value="0"/>	

2- Aim of the course	<ul style="list-style-type: none">• To make students familiar with electronic components and various electronic circuits representations.• To learn how to draw and understand various electronic circuits representations (electronic symbol, block diagram, flow chart, logic diagram, schematic diagram, and wiring connection diagrams).• To develop the student's skills to design the schematic diagrams for a practical circuit.• To know the construction of the commonly used electrical components through assembly drawing of these components.
3- Intended Learning Outcomes:	
A- Knowledge and Understanding:	a4) Principles of design including elements design, process and/or a system related to specific electronic circuits drafting. a8) Current engineering technologies as related to electronic circuit drafting.
B- Intellectual Skills	b4) Combine, exchange, and assess different ideas, views, and knowledge from a range of sources. b5) Assess and evaluate the characteristics and performance of components, systems and processes.
C- Professional Skills	c2) Professionally merge the engineering knowledge, understanding, and feedback to improve design, products and/or services. c3) Create and/or re-design a process, component or system, and

	carry out specialized engineering designs.
D- General Skills	d1) Collaborate effectively within multidisciplinary team. d7) Search for information and engage in life-long self learning electronic circuits drafting. d8) Acquire entrepreneurial skills.
4- Course Contents	Drafting techniques of electronic designs-Symbols of electronic Circuits drafting Assembly and detail drawing-Electron-Component symbols – Schematic -diagram drawing-Wiring and printed circuit board diagrams-Draw Proper Schematic diagrams of pictorial diagrams-Computer-aided-drawing of electronic Components and circuits- Computer-aided-drawing of printed circuit boards.
5- Teaching and Learning Methods	<ul style="list-style-type: none"> - Lectures - Tutorials - Labs and/or case studies - Research assignments
6- Teaching and Learning Methods for disable students	NA
7- Student Assessment	
a- Assessment Methods	<ul style="list-style-type: none"> - Weekly sheet exercises at class room - Quizzes - Labs and/or case study for more demonstration. - Mid term, and final exams
b- Assessment Schedule	<ul style="list-style-type: none"> - Exercise sheet/ Lab assignment : Weekly - Quizz-1: Week <u>no</u> - Mid-Term exam: Week <u>no</u> 8 - Quizz-2: Week <u>no</u> - Lab exam: Week <u>no</u> - Final – term examination: Week <u>no</u>
c- Weighting of Assessment	<ul style="list-style-type: none"> - Class tutorial and quizzes : 10 % - Mid-term examination: 15 % - Case study and/or practical exam: 0 % - Final – term examination: 70 % - Other types of assessment: <u>5 %</u> <li style="text-align: right;">Total 100 %
8- List of text books and references:	
a- Course notes	There are lectures notes prepared in the form of a book authorized by the department

b- Text books	[1] James M. Kirkpatrick, Electronic drafting and printed circuit board design, Delmar Publishers, ISBN 0827323158, 1988. [2] Robert S. Villanucci, Electronic drafting – printed circuit design, Macmillan Publishing company, ISBN 0024230502, 1985.
c- Recommended books	[1] James D. Bethune, Basic electronic and electrical drafting, Princes-Hall, ISBN 0130603368, Second edition 1985. [2] K. Karl Kuller, Electronics Drafting, McGraw Hill Book Company, 1962. [3] Charles J. Baer, Electrical and electronic drawing, McGraw-Hill, ISBN 0070030081, 1960.
d- Periodicals, Web sitesetc	Web Sites related to electronic circuits projects.

Course contents - ILOs Matrix

Content Topics	Week	A- Knowledge & Understanding	B- Intellectual skills	C- Professional and practical skills	D- General and transferable skills
Drafting techniques of electronic designs-Symbols of electronic Circuits drafting Assembly and detail drawing	1-2	A4, A8	B4, B5	C2	D1, D7
Electron-Component symbols – Schematic - diagram drawing	3-5	A8	B4	C3	D1, D9
Wiring and printed circuit board diagrams-Draw Proper Schematic diagrams of pictorial diagrams	6-7	A4	B5	C2, C3	D1, D7, D9
Computer-aided-drawing of electronic Components and circuits	9-11	A4, A8	B4, B5	C2	D1, D7
Computer-aided-drawing of printed circuit boards	13-14	A8	B4	C3	D1, D9

Course coordinator:

Head of Department:

Date: / /