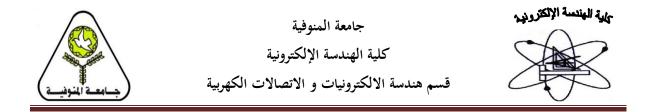
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Department offering the program: Department offering the course: Electronics and Electrical Communications Electronics and Electrical Communications Engineering

Course Specification

1- Course basic information :					
Course Code: FR 016 Faculty requirement	8 8 .				
Field: Basic Eng. Science	Teaching hours: Lec	ture 2 Tutorial 2			

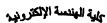
2- Co							
Obje	ctives	2. To introduce students to Engineering Operations.					
		3. To equip student with isometric and view,					
		4. To acquire students the	skills to deduct the third view.				
		5. To introduce students en	ngineering sections.				
		6. To provide students wi	ith different methods of projection.				
			skills to deduce normal projections for eng. bodies.				
3- Int ARS	- Intended Learning Outcomes: Course ILOs						
AND		2 1.1.					
<u>5</u> 0		Discuss topics related to	A9.1 Discuss different types of engineering lines.				
dir	human	nitarian interests.	A9.2 Discuss topics related to isometric and view.				
an			A9.3 Discuss Construction of the third view for				
irst	11.2		machine elements.				
nde	11	1. 11	A9.4 Discuss topics related to Sectional views,				
Ŋ	12.00		cutting plane and types of sections.				
A- Knowledge and Understanding	and		A9.5 Discuss topics related to drawing of Metallic junction lines				
dgt	A9.6 Discuss topics related to different m						
vle	projection.						
A9.7 Discuss topics related to normal pro-							
R							
-A							
			None				
lls	None						
Ski							
B- Intl. Skills							
In							
ц.							

المنونية	جامعة المنوفية كلية الهندسة الإلكترونية قسم هندسة الالكترونيات و الاتصالات الكهربية	ياية المندسة الإلكترونين ماية المندسة الإلكترونين

	C.3 Crea	te and/or re-design a	C3.1 Create isometric view.		
	process, component or system,		C3.2 Create deduction of the third view.		
	and carry out specialized		C3.3 Create sectional views for eng. machines.		
SI	-	ing designs.	C3.4 Create different projections for eng. problems.		
Skill			C3.5 Create normal projections for eng. problems.		
C- Professional Skills	C.12 Prepare and present technical reports.		C12.1 Prepare and present technical drawing reports for isometric view. C12.2 Prepare and present technical drawing		
C- P		14	reports for deduction of the third view. C12.3 Prepare and present technical drawing		
•			reports for sectional views for eng. machines.		
		1	C12.4 Prepare and present technical drawing		
	1		reports for normal projections for eng. problems.		
	D.3 Con	nmunicate effectively.	D3.1 Communicate effectively in tutorial class		
al	641	· // \`	room, and in lecture time.		
D- General Skills					
Gene Skills		ectively manage tasks,	D6.1 Effectively manage tasks, time, and resources		
D	ume, and	d resources.	at drawing room, when doing drawing homework, and at exam time.		
	(V)	121	and at exam time.		
4- Co	ourse	Different types of engin	eering lines- Operations- Isometric and view –		
Conte	ents	Construction of a third	l view for machine elements. Sectional views, cutting		
			s –Draw of Metallic junction lines- Introduction to		
			thods of projection- normal projection.		
	aching	- Lectures			
and L Meth	Learning	- Tutorials			
		- Drawing assign			
	aching an		low cost special classes for developing student skills,		
	ning Meth	anangeo	by the faculty administration.		
disab	le student	• Office h	nours for those students.		
		• Lessen	to their questions carefully and answer it on time.		
7- Stu	ident Ass	essment			
a- As	sessment	- Weekly sheet e	xercises at Drawing hall		
Methods - Quizzes					
- Drawing homewo		<u> </u>			
- Midterm, and fin					
Schedule - Quiz-1: - Mid-Term e - Quiz-2:		- Drawing assign			
		-	Week no 4		
			Week no 12		
• W	ich 4in -	- Final – term ex			
	eighting of				
Assessment - Final – term ex		- Final – term ex	amination: <u>70 %</u> Total 100 %		
			10tal 100 70		



جامعة المنوفية كلية الهندسة الإلكترونية



قسم هندسة الالكترونيات و الاتصالات الكهربية



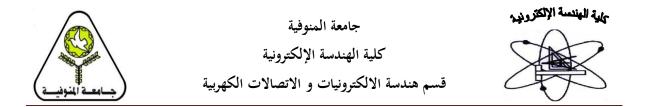
8- List of text books and references:				
a- Course notes	There a	are lectures notes prepared in the form of a book authorized by		
	the dep	partment		
b- Text books		[1] Ken Morling, Geometric and Engineering Drawing, 3 rd		
		edition, Routledge, ISBN-10: 0415536197, July 2012.		
c- Recommended boo	oks	[1] Mahendrakumar Budhichand Shah, Bachubhai		
Chhibubhai Rana, Engine		Chhibubhai Rana, Engineering Drawing, Pearson Education		
1		India, 2009.		
	[2] Basant Agrawal, Engineering Drawing, Tata McGraw-Hill			
		Education, 2008.		
d- Periodicals, Web s	ites etc	Web Sites related to Drawing Engineering and Projection.		

Course contents - ILOs Matrix

Content Topics	Week	A- Knowledge & Understanding	B- Intellectual skills	C- Professional and practical skills	D- General and transferable skills
Different types of engineering lines	1-2	A9.1	-	Y	D.3.1, D.6.1
Operations -Isometric and view	3-4	A9.2	-	C3.1, C12.1	D.3.1, D.6.1
Construction of a third view for machine elements	5-7	A9.3		C3.2, C12.2	D.3.1, D.6.1
Sectional views, cutting plane, types of sections	9-10	A9.4		C3.3, C12.3	D.3.1, D.6.1
Draw of Metallic junction lines	11	A3.1, A9.5		1	D.3.1, D.6.1
Introduction to projection- different methods of projection	12-13	A9.6	J.	C3.4	D.3.1, D.6.1
Normal projection Additional projection-	14-15	A9.7		C3.5, C12.4	D.3.1, D.6.1

Teaching and Learning Methods - ILOs Matrix

Teaching and Learning Methods	A- Knowledge &	B- Intellectual	C- Professional and practical	D- General and transferable
	Understanding	skills	skills	skills
Lectures	A.3,A.9	-	C.3	D.3
Tutorials.	A.3,A.9		C.3,C.12	D.3,D.6
Exercises	A.3,A.9	-	C.3,C.12	D.3,D.6
Reports and assignments	A.3,A.9	-	C.3,C.12	D.3,D.6



Assessment Methods - ILOs Matrix

Assessment Methods	A- Knowledge & Understanding	B- Intellectual skills	C- Professional and practical skills	D- General and transferable skills
Weekly sheet exercises	A.3,A.9	-	C.3,C.12	D.3,D.6
Reports	A.3,A.9	_	C.3,C.12	D.3,D.6
Quizzes	A.3,A.9	-	C.3,C.12	D.3,D.6
Midterm, and Final Written exams	A.3,A.9	10	C.3,C.12	D.3,D.6

Authorized from department board at 15/05/2016 Authorized from college board at 05/06/2016

Course coordinator: Prof. Dr. Saber Zaineldeen Head of Department

Prof. Fathi El-Sayed Abd El-Samie