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Department offering the program: Electronics and Electrical Communications **Department offering the course**: Physics and Engineering Mathematics

Course Specification

1- Course basic information :					
Course Code: UR 027 Univ. Requirement	Course Title: Engineering History	Academic year: 2015/2016 Level (0) – Semester: 2 nd			
Field: Humanities and Social Science	Teaching hours: Lecture 2	Tutorial 0 Lab 0			

	ectives engineering. 2. To inform stude downs, objectives 3. To throw light of civilization. 4. To inform stude society develop	2. To inform students definition of Cultural heritage, its source, ups and downs, objectives and motivations.3. To throw light on some of the scientific facts brought about by human		
3- In	tended Learning Outcomes: ARS	Course ILOs		
::	A.9) Outline topics related to humanitarian interests and moral issues.	A9.1) Outline the definitions of art, science, technology and engineering. A9.2) Outline Cultural heritage, its source, ups and downs, objectives and motivations. A9.3) Outline scientific facts brought about by human civilization. A9.4) Outline the relation between engineering development and society development. A9.5) Outline the development of selected industries e.g. textiles, garment, plastics, refrigeration, pumps, electric, etc.		
A- Knowledge and Understanding:	A.11) Define professional ethics and impacts of engineering solutions on society and environment.	A.11.1) Define impacts of arts, science, technology and engineering on society and environment. A.11.2) Define impacts of Cultural heritage, objectives and motivations on society and environment. A.11.3) Define impacts of scientific facts brought about by human civilization on society and environment. A.11.4) Define impacts of engineering development on society development. A.11.5) Define impacts of the development of some industries e.g. textiles, garment, plastics, refrigeration, pumps, electric on society and environment.		





B- Intell. Skills	None		None			
C- Prof. Skills	C.12. Prepare and present technical reports.		C12.1 Prepare and present technical reports on topics related to arts, science, technology and engineering. C12.2 Prepare and present technical reports on topics related to Cultural heritage. C12.3 Prepare and present technical reports on topics related to scientific facts brought about by human civilization. C12.4 Prepare and present technical reports on topics related to the relation between of engineering development and society development. C12.5 Prepare and present technical reports on topics related to the development of selected industries.			
D.3) Communicate effectively. D.6) Effectively manage tasks, time, and resources.			D3.1) Communicate effectively in lecture time. D6.1) Effectively manage tasks, time, and resources when writing a report or at exam times.			
4- Co	4- Course Contents Definition of art, science, technology and engineering. Definition of Cultural heritage, its source, ups and downs, objectives and motivations, throwing light on some of the scientific facts brought about by human civilization. Relation between of engineering development and society development. Development of selected industries (textiles, garment, plastics, refrigeration, pumps, electric, etc.).					
	eaching and	- Lectures	1 dunis			
	ning Methods	- Repots	an of the office house for the control of			
Lear	 Assign a portion of the office hours for those students. Arrange meetings for more discussion and declaration. Repeat the explanation of some of the material during lecture time. 					
7- St	7- Student Assessment					
	ssessment ethods	ReportsQuizzes.Midterm, and fina				
b- As Schee	ssessment dule	 Quizzes Mid-Term exam: Final – term exam	Week 4 and 12 Week <u>no</u> 8 ination: Week <u>no</u> 16			





c- Weighting of	- Quizzes 15 %			
Assessment	- Mid-term examination: 15 %			
	- Final – term examination: <u>70 %</u>			
	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] Ervan G. Garrison, History of Engineering and Technology: Artful Methods, CRC Press, 1998.			
c- Recommended	[1] Richard Shelton Kirby, Engineering in History, Courier Corporation, 1990.			
books				
d- Periodicals,	Web sites related to history of engineering sciences			
Web sites				
etc				

Course contents - ILOs Matrix

Content Topics	Week	A- Knowledge & Understanding	B- Intellectual skills	C- Professional and practical skills	D- General and transferable skills
Definition of art, science,	1-2	A9.1, A11.1		C12.1	D3.1, D6.1
technology and engineering.	NO.			100	
Definition of Cultural	3-4	A9.2, A11.2		C12.2	D3.1, D6.1
heritage, its source, ups and	II. (III				
downs, objectives and	ν	7 // \		100 AUGUST	
motivations					
Throwing light on some of	5-7	A9.3, A11.3		C12.3	D3.1, D6.1
the scientific facts brought				7 / //	1.00
about by human civilization.	1			314	1/10
Relation between of	9-10	A9.4, A11.4	50	C12.4	D3.1, D6.1
engineering development			1	A 2000	
and society development.	6		- 100	> A	
Development of selected	11-15	A9.5, A11.5	- 6	C12.5	D3.1, D6.1
industries (textiles, garment,	la.	" dus	-		
plastics, refrigeration,			-	100	100
pumps, electric, etc.).	Ca.	- Egran		1000 1000	100

Teaching and Learning Methods - ILOs Matrix

Teaching and Learning Methods	A- Knowledge & Understanding	B- Intellectual skills	C- Professional and practical skills	D- General and transferable skills
Lectures	A.9, A.11		C.12	D.3
Reports	A.9, A.11		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
Reports	A.9, A.11		C.12	D.3, D.6
Quizzes, Midterm, and Final Written exams	A.9, A.11		C.12	D.6

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

Course coordinator: Prof. Dr. Atef AboAlazm

Head of Department:Prof. Fathi El-Sayed Abd El-Samie

