

UNR1605 History of Engineering and Technology**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
None	1	2	2	-	-	2

COURSE AIM

This course involves the student in over grasping the history and development of engineering sciences. Describe the history of Engineering. Compare and contrast the different branches of Engineering. Identify the career opportunities and education and training requirements.

COURSE WEEKLY CONTENTS

- 1 Definitions of art, science, technology and engineering
- 2 The Relation of Art, Science and engineering
- 3 History of industrial revolution
- 4 History of second industrial revolution
- 5 History of information Revolution
- 6 Environmental engineering history and advances
- 7 Social involvement in technological advances / 7th week Assessment +
- 8 Branches of engineering Overview
- 9 Contrast of the different branches of Engineering
- 10 Career opportunities in Engineering branches
- 11 Environmental engineering history and advances
- 12 12th week Assessment + Examples on development of engineering activities
- 13 Examples on development of engineering activities (cont.)
- 14 Energy situation in Egypt – Energy balance.
- 15 Energy alternatives in Egypt.

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	←		30	MARKS		→	30
8 to 12	←		20	MARKS		→	20
1 to 15	←		10	MARKS		→	10
16 or 17	40	Final					40

REFERENCES

Textbook • A History of Engineering and Technology Artful Methods ByErwan Garrison