

**DEPARTMENT OF INDUSTRIAL ENGINEERING  
COURSE SYLLABUS**

<i>COURSE TITLE</i>	<i>ENGLISH CODE/NO</i>	<i>ARABIC CODE/NO.</i>	<i>CREDITS</i>			
			<i>Th.</i>	<i>Pr.</i>	<i>Tr.</i>	<i>Total</i>
<b>Industrial Management</b>	<b>IE 351</b>	حص ٣٥١	3	1	-	٣
<i>Pre-requisites:</i>	IE256					
<i>Course Role in Curriculum</i>	<i>Required or Elective:</i>		Required Core Course			
<i>Catalogue Description:</i> Introduction to industrial management. Economic concepts in industry. Organizational structure and design. Human resource management. Motivating the work force. Managing information technology. Financial management. Engineers in marketing and services. Job analysis, job description and job specification. Preparation of business plan.						

**Textbooks:**

MGMT6 (with Career Transitions Printed Access Card), 6th Edition  
 Chuck Williams  
 ISBN-10: 1-285-09107-8  
 ISBN-13: 978-1-285-09107-5  
 Cengage Learning Publishers

**Supplemental Materials:**

Handouts, supplemental material, exercises, case studies

**Course Learning Outcomes:**

By the completion of the course the student should be able to:

1. Management
2. Organizational Environments and Culture
3. Organizational Strategy
4. Innovation and Change
5. HR Systems
6. Leadership

<b><u>Topics to be Covered:</u></b>		<b><u>Duration in Weeks</u></b>
1	Management history and role in an engineer's life	1
2	Organizational Environment and culture and how they can be developed and how they impact performance	2

3	Organizational Strategy: Porter, SWOT,	3
4	Innovation and Change: Learning curves, technology cycles, innovation in the workplace	2
5	Managing HR Systems: Job analysis and design, compensation systems, performance management systems	2
6	Leadership: Leadership theories and concepts	2

**Student Outcomes addressed by the course:** (Put a  $\checkmark$  sign)

(a)	an ability to apply knowledge of mathematics, science, and engineering	$\checkmark$
(b)	an ability to design and conduct experiments, as well as to analyze and interpret data	
(c)	an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	$\checkmark$
(d)	an ability to function on multidisciplinary teams	
(e)	an ability to identify, formulate, and solve engineering problems	$\checkmark$
(f)	an understanding of professional and ethical responsibility	
(g)	an ability to communicate effectively	
(h)	the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	$\checkmark$
(i)	a recognition of the need for, and an ability to engage in life-long learning	
(j)	a knowledge of contemporary issues	$\checkmark$
(k)	an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	$\checkmark$

**Key Student Outcomes assessed in the course:** ( h) and (k)

***Instructor or course coordinator:*** Dr. Ayman Arab Hashem

***Last updated:*** February 2015