

## **Course Specifications**

Program: Aerospace Engineering  
Major Field: Management  
Department: Aerospace Engineering.  
Academic Year Level: Third Year Undergraduate  
Term: Second  
Year of Approval: March 2015.

### **A- Basic Information**

Title: Project Management  
Code: AER311  
Credit Hours: 2  
Weekly Hours: Lectures 2, Tutorials 0, Total 2  
Prerequisite Courses: None

### **B-Professional Information**

#### **1-Overall Aims of Course**

The programme aims to develop the theoretical and practical aspects of the student by means of personal development, knowledge acquisition, problem analysis evaluation and solving | preparation for a career in project management in a supervisory role. Following the course will also provide the basis for an appreciation of the value of education and life-long learning through additional study and continuing professional development. In this way the student will be provided with the range of academic and professional values and attitudes necessary to meet the needs of a rapidly changing technical and industrial environment

#### **2-Intended Learning Outcomes**

##### **A-Knowledge and Understanding**

1. legal principles underpinning project management
2. Developmental principles underpinning project management practices and processes in the built environment
3. Mathematical principles underpinning the production use and interpretation of statistics
4. Organisational principles underpinning project management functions in the built environment
5. The role of the project manager in the built environment
6. Current and future developments for the project manager in the built environment

## **B-Intellectual Skills**

1. Apply the principles of project management to a variety of situations in the built environment
2. Integrate information to produce reports on a variety of situations
3. Assess and evaluate data from a variety of sources and situations
4. Assess problems and implement decisions to problems

## **C-Professional and Practical Skills**

1. Undertake project management exercises
2. Undertake planning and programming exercises and communicate the results of the same
3. Select appraisal tools and use the same in a variety of situations
4. Prepare reports and communicate results

## **D-Transferable Skills**

1. Communication in a variety of media and situations
2. Learning in unfamiliar situations
3. Working as part of a team

## **3-Course Contents**

<b>Topic</b>	<b>Lecture Hour</b>	<b>Tutorial Hour</b>
An Overview of Project Management	2	0
A General Approach to Project Planning	2	0
Developing the Project Mission, Goals, and Objectives	2	0
Using the Work Breakdown Structure to Plan a Project	2	0
Scheduling Project Work	2	0
Scheduling Computations	2	0
Project Control and Evaluation	4	0
Project Control Using Earned Value Analysis	4	0
Managing the Project Team	4	0
How to Make Project Management Work in Your Company	2	0

## **4-Teaching and Learning Methods**

- Board instructions
- Student discussions
- Homework problems
- Discussion of exercise problems
- Computer laboratory

## **5-Student Assessment Methods**

- Mid-term exam
- Final exam

## Assessment Schedule

Assessment 1	At the mid- term
Assessment 2	At the end of the term

## Weighting of Assessments

Mid-Term exam	30 %
Final exam	70 %

## 6- References

- (1) G. Moaty “ Principles of Project Management”, 2007
- (2) Amacom - The Project Management Question and Answer Book - 2004
- (3) Charvat - Project Management Nation, 2006
- (4) James P. Lewis - Fundamentals of Project Management , 2005
- (5) John Wiley and Sons - The Portable MBA in Project Management , 2007
- (6) Prentice Hall - Integrated Project Management, 2007

## 7-Facilities Required for Teaching and Learning

- Board
- Exercise sheets
- Computer laboratory
- Library

Course Coordinator: Prof. Hani Negm

**Head of Department:** Prof. Ayman H. Kassem

**Date:** March, 2015.