



Introduction Document Project Management Professional Course

Course: Professional Project Management - PMP Master of Qualification and
Specialization in Building Information Modeling Management - Prof. Emad El-Beltagy

Number of sessions: 12 sessions (24 hours)

Course summary: The project environment in general, especially construction projects, is characterized by intense competition, rapid change, and increased knowledge and skills. The complexity and size of projects are constantly increasing as a result of the great scientific and technical development and the increasing global demand for project investments. This course includes the various knowledge required to be taught by professional project managers.

Material Code: BIM-MA

The classes: THIRD SESSION

Article chapters**12**:

| chapter number | Chapter title | Brief explanation |
|----------------|------------------------------------|---|
| 1 | Introduction to project management | <ul style="list-style-type: none"> - Definition of the project, its stages, and the various knowledge required for project management. |
| 2,3 | Time Management | <ul style="list-style-type: none"> - Time management planning - project breakdown structure - defining activities, defining relationships, - working project networks, scheduling activities, monitoring projects. |
| 4.5 | Cost Management | <ul style="list-style-type: none"> - Cost management planning - Cost estimation by different methods, - Project budgeting, cost control. |
| 6,7 | Resource Management | <ul style="list-style-type: none"> - Planning resource management - Organizational structures for projects - Identification of resources for activities - Team formation and team management - Motivation theories, conflict resolution. |
| 8,9 | RISK Management | <ul style="list-style-type: none"> - Risk management planning, - risk identification, - qualitative and quantitative risk analysis, - risk response plan, - risk control. |
| 10,11 | Supply Management | <ul style="list-style-type: none"> - Supply management planning - Types of project delivery methods, types of contracts. |
| 12 | General Review | <ul style="list-style-type: none"> - A review of what has been studied and linking different knowledge together. |

Outcomes:

| Learning Outcomes | Learning Outcomes | Homework (project) | Synchronous sessions | Exam |
|-------------------|---|--------------------|----------------------|------|
| LO1 | Essential knowledge, concepts and terminology related to project management practices. | √ | √ | √ |
| LO2 | Ability to understand the project, its limitations and objectives/requirements. | √ | √ | √ |
| LO3 | The ability to develop an integrated plan (chronologically and financially) for project management. | √ | √ | √ |
| LO4 | Ability to follow up on the implementation of the project plan. | √ | √ | √ |
| LO5 | Understanding supply management | √ | √ | √ |
| LO6 | Understanding project resource management | √ | √ | √ |
| LO7 | Understanding risk management | √ | √ | √ |

Evaluation Criteria:

| Learning Outcomes | Evaluation Criteria To achieve the results, the student must demonstrate the capabilities in: |
|-------------------|---|
| LO1 | 1- Re-read the most important terms and concepts that the professor addressed in the lecture. 2- It raises inquiry questions about the meaning of each term/concept and how it relates to reality. |
| LO2 | 1- He reviews the requirements and objectives of the projects and writes down the requirements and objectives of his project as a case study. 2- He reviews the project restrictions and applies it to his project as a case study. 3- He reviews the available information about his project and completes the deficiencies in different ways. |
| LO3 | 1- Learn how to plan and prepare for a project plan. 2- Students calculate the cost of the project elements. 3- A case study of a project carried out by students in groups. |
| LO4 | 1- Get to know the concept of evaluating the temporal and financial performance and its different methods for his project. 2- Recognize the approved evaluation criteria - for example: acquired values - in the different evaluation systems. |
| LO5 | 1- Learn about the different delivery methods for projects. 2- A separate discussion on the different types of contracts and the criteria for selecting the contract for the project. |
| LO6 | 1- Learn about the different delivery methods for projects. 2- A separate discussion on the different types of contracts and the criteria for selecting the contract for the project. |
| LO7 | 1- Learn about risk management. 2- Preparing a plan to study the risks for a project of the student's choice. |

Instructions:

Generating Evidence: The student individually prepares a brief report in which he demonstrates his ability to understand the previous outcomes, and this is before he takes the exam and deals with:

- Problems facing project management in his organization or management
- Then how does the project management contribute to solving these problems or reducing them, thus achieving its objectives and the required quality.

References

- **First - Arabic books:**

- الجار الله، محمد بن إبراهيم: إدارة التشييد، منشورات جامعة الملك سعود، عمادة شؤون المكتبات 1413هـ.
- الدليل المعرفي لإدارة المشروعات (PMBOK® Guide)، الطبعة الخامسة، النسخة العربية، 2013، معهد إدارة المشاريع، أمريكا، PMI، الرقم الدولي المعياري للكتاب (9-978-1-935589-67-1).

- **Second - foreign books:**

- HAROLD KERZNER, PROJECT, MANAGEMENT, BEST PRACTICES, Achieving Global Excellence, THIRD EDITION, Copyright © 2014 by International Institute for Learning, Inc., New York, New York. All rights reserved. Published by John Wiley & Sons, Inc., Hoboken, New Jersey
- Ignacio Manzanera ,PLANNING & SCHEDULING, REFERENCES, ,CCC, MBA, ME, CPM, 2013
- Robert K. Wysocki and Rudd McGary, Effective Project Management: Traditional, Adaptive, Extreme 3rd Edition, ISBN: 0471432210, 2003, PMI Books/Effective Project Management.htm.
- Chang, C. M.; Engineering Management Challenges in the New Millennium, Upper Saddle river, N.J Pearson Prentice Hall, 526p; 2005
- Hagit Landman, "Enterprise Project management Using Microsoft® Office Project Server 2007"-Best Practices for Implementing an EPM Solution, J. Ross Pub. www.jrosspub.com, 2008
- Humphreys, Gray C. 2002. Project Management Using Earned. Orange, CA: Humphreys & Associates
- Kerzner H.; Project Management; a system approach to planning, scheduling, and controlling; 9th edi. John Wiley & Sons, Inc, USA, 2006
-

Third - websites related to the course:

www.pmi.org

www.prince-officialsite.com

<https://www.prince2.com/uk>