

Engineering Management and Economy

Contents:-

1 st Semester	2 nd Semester
Engineering Management	Engineering Economy
2 hrs/week (3 Unit)	2 hrs/week (2 Unit)
<ul style="list-style-type: none">1-General Introduction2-Project Planning3-Bar chart (Gantt Chart)4-Network Analysis Technique5-Project Resource Management (Leveling & Scheduling)6-Program Evaluation and Review Technique (PERT)7-Repetitive Projects Planning by Line of Balance (LOB)	<ul style="list-style-type: none">1-Project Selection Process2-Estimation of Construction Cost3-Cash Flow of Project4-Project Evaluation by Earned Value management5-Reducing Project Duration by Crashing Management6-The Basis of construction contracts7-Linear Programming (Operation Research)

Practical: 2 hrs/week

Applications of Computer: Training on MS project in Laboratory

References

1- إدارة المشاريع الإنشائية والعلاقات المهنية: احسان العطار

2- A Guide to the project management body of knowledge, 4th edition, PMI

3- Project Management, A Systems Approach to Planning, Scheduling, and Controlling, 10th edition, KERZNER

4- Principles of Construction management By: Roy Piltcher

5- Construction management By: Robert Hares & Frank Hares

6- Operations Management Creating Value Along the Supply Chain Russell - Chapter 9: Project management", By: Russell and Taylor (2011)