

CB516 Construction Project Management I

COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laborator y	
CB311 CB322	5	9	2	2	2	3

COURSE AIM

The course aims at providing the students with the necessary skills to plan, schedule and monitor construction projects.

COURSE WEEKLY CONTENTS

- 1 Introduction to planning and scheduling
- 2 Work Breakdown Structure (WBS), activity lists and durations.
- 3 Logical relationships and network representations (AOA & AON).
- 4 Critical path method on AON networks.
- 5 Advanced relations in AON.
- 6 Development of Bar Charts using Calendars.
- 7 7th week evaluation, Schedule application on computer software. + Midterm Exam
- 8 Resource Management: Loading, planning & control.
- 9 Resource Management: Leveling.
- 10 Resource Management: Allocation.
- 11 Project cash flow analysis: Cash-out & project budget.
- 12 Resource leveling, 12th week Assessment.
- 13 Project cash flow analysis: Cash-in, cash flows, and financing costs.
- 14 Project control: Progress measurement & updating of schedules.
- 15 Project control: Earned value analysis.

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20 Midterm	←	10	MARKS		→	30
To be freely distributed among possible assessments							
8 to 12	←		20	MARKS		→	20
13 to 15	←		10	MARKS		→	10
16 or 17	40 Final						40
Total	Exams	Assign.	Quizzes	Reports	Present.	Lab.	100

REFERENCES

Textbook Scheduling Principles and Practices, 2nd Edition by Newitt, J., Prentice Hall, 2008.

Other Scheduling and Management for Construction, 4th Edition, Pierce, D.: RSMean, USA, 2013.
 Planning and Scheduling using Primavera Contractor, Ver. 4.1, for the Construction Industry, Feigenbaum, L., John Wiley and Sons, 2005.