

1.6 Semester 6

CB311 Introduction To Construction Management

COURSE INFORMATION

| Prerequisites | Academic Year & Level | | Teaching Methods | | | Credit Hrs. |
|---------------|-----------------------|----------|------------------|----------|----------------|-------------|
| | Year | Semester | Lecture | Tutorial | Laborator y | |
| BA224 | 3 | 6 | 2 | 2 | 0 | 3 |

COURSE AIM

The aim of this course is to introduce the student to the construction industry challenges and the need for scientific management in the field. The course then focus on introducing the knowledge of engineering economy and the economic comparison among alternatives in addition to feasibility studies for construction projects.

COURSE WEEKLY CONTENTS

- 1 The nature of the construction industry, project definition, and types of construction projects.
- 2 Key participants in construction projects and their responsibilities.
- 3 Project phases and processes mapped to project life cycle.
- 4 Management functions, project management definition & organization charts.
- 5 Productivity measurement & productivity improvement methods.
- 6 Time Value of Money: cash flow diagrams and equivalence.
- 7 Midterm Exam
- 8 Interest rates: simple; compound and effective.
- 9 Measures of worth: present value; annual worth; and future value.
- 10 Measures of worth: internal rate of return.
- 11 Equipment decisions: annual/hourly costs and buy or rent decisions.
- 12 12th week Assesment.
- 13 Comparison of alternatives.
- 14 Cost/Benefit Analysis.
- 15 Sensitivity 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** Modern Construction Management, Frank Harris, Blackwell Publishing, 6th Edition, 2006.
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- Other** A Guide to the Project Management Body of Knowledge (PMBOK Guide), 5th Edition, Project Management Institute, 2013.
Construction Project Administration, Edward R. Fisk and Wayne D. Reynolds, Prentice Hall, 10th Edition, 2013.
Construction Management, Halpin, D. W., John Wiley and Sons, 4th Edition, 2011.
Project Management in Construction, Levy, S.M. McGraw Hill Inc., USA, 6th Edition, 2011.