

## LECTURE MANUAL

*In*

CE116

## CONSTRUCTION COST ENGINEERING

### Topics:

1. Introduction and Orientation
2. The Project Management Information System
  - a. System Information Systems
  - b. The PMIS, Objectives, Design
  - c. Components of PMIS
  - d. Values of PMIS
  - e. Challenges to implementation of PMIS
3. Introduction to Construction Cost
  - a. Types of Construction Cost:
  - b. Preliminary Estimate; Cost per sq.m.
  - c. Stipulated sum/Unit Price; Cost plus;
  - d. Estimating formats
  - e. Work Breakdown Structure (WBS)
  - f. CSI Master Format
4. Cost Estimating Components
  - a. Quantities
  - b. Direct Cost:
  - c. Unit Cost Theory and Practice
  - d. Materials, Labor, Equipment
  - e. Equipment Cost of Owning and operating
  - f. Sub-con cost
  - g. Project Overhead Cost
  - h. Contingencies/taxes
  - i. Profit/mark-up
5. Cost Planning
  - a. Flowchart-Project Scheduling
  - b. Flowchart-Material Cost Scheduling
  - c. Flowchart-Manpower Scheduling
  - d. Flowchart-Subcon Cost Scheduling
  - e. Flowchart-Equipment Cost Scheduling
  - f. Preparing Cash flow projections
6. Cash flow assumptions:

# Lecture Notes On Construction Cost Estimating Guide

**David L. Russell, Pieter C. Arlow**



## **Lecture Notes On Construction Cost Estimating Guide:**

Cultural Landscapes Inventory Professional Procedures Guide Robert R. Page,1998      Construction Cost Management Keith Potts,Nii Ankrah,2008-04-30 The Latham and Egan Reports have seen some significant changes in the role of the construction cost manager Keith Potts examines the key issues and best practice in the cost management of construction projects under traditional contracts and new methodologies All stages within the life cycle of a project are considered from pre contract to tendering and post contract      **Effective Project Management** Garth G.F. Ward,2018-06-19 A practical and accessible guide to managing a successful project Effective Project Management is based around an activities and action check list approach to project management It provides a guide to the basic principles and the disciplines that managers need to master in order to be successful The author s check lists approach based on his years of practical experience on projects ensure that project managers are following valid processes helping them to be innovative in their approach to developing plans and resolving problems In addition the author s check list pick and mix format is designed to be flexible in order to meet the individual needs of the reader Effective Project Management also contains some information on the theories underpinning project management Knowledge of the theory helps in the understanding of how project management works in practice In addition to the book s check lists of what activities need to be performed the author offers suggestions on how tasks could be carried out This important resource Covers a wide range of project management topics including the project management process programme and portfolio management initiating and contracting a project personal skills and more Offers a highly accessible guide to the author s verified check list approach Presents flexible guidelines applicable for a wide range projects Includes guidance for project managers at all levels of experience Written for project managers working on engineering or construction projects Effective Project Management reviews all aspects of a project from initiation and execution to project completion together with the specialist topics and personal skills needed to manage projects effectively

**2400 Business Books and Guide to Business Literature** New Jersey. Public Library,1920      2100 Business Books, and Guide to Business Literature Newark Public Library. Business Branch,1920      **Manual Training Magazine** Charles Alpheus Bennett,William Thomas Bawden,1924      The Construction Industry in the Fourth Industrial Revolution Clinton Aigbavboa,Wellington Thwala,2019-08-09 This book gathers papers from the 11th Construction Industry Development Board cidb Postgraduate Research Conference held on 28 30 July 2019 in Johannesburg South Africa The conference provided an essential forum for reviewing and generating knowledge on Construction 4 0 and consequently highlighted processes and practices that allow us to deliver and operate built environment assets more effectively and efficiently by focusing on physical to digital and digital to physical transformation The event addressed three broad themes Industrial production prefabrication 3 D printing and assembly offsite and advanced manufacturing Cyber physical systems actuators sensors IoT robots and cobots for repetitive and dangerous tasks and drones for mapping progress monitoring safety and quality inspections lifting

moving and positioning and Technologies digital ecosystems digital platforms BIM video and laser scanning AI and cloud computing big data and data analytics reality capture blockchain simulation virtual and augmented reality data standards and interoperability and vertical and horizontal integration Given its scope the book will be of interest to all construction industry and architectural professionals who want to learn about cutting edge technologies applied to construction

*Industrial Security* David L. Russell, Pieter C. Arlow, 2015-04-20 A comprehensive and practical guide to security organization and planning in industrial plants Features Basic definitions related to plant security Features Countermeasures and response methods Features Facilities and equipment and security organization Topics covered are applicable to multiple types of industrial plants Illustrates practical techniques for assessing and evaluating financial and corporate risks

Residential Building Cost Guide ,1999      *Construction Cost Estimating* Len Holm, John E. Schaufelberger, 2021-04-07 Construction Cost Estimating equips a new generation of students and early career professionals with the skills they need to bid successfully on projects From developing bid strategies to submitting a completed bid this innovative textbook introduces the fundamentals of construction estimating through a real life case study that unfolds across its 24 chapters Exercises at the end of each chapter offer hands on practice with core concepts such as quantity take offs pricing and estimating for subcontractor work Online resources provide instant access to examples of authentic construction documents including complete detailed direct work estimates subcontractor work estimates general conditions estimates markups and summary schedules Through its unique mix of real world examples and classroom tested insights Construction Cost Estimating ensures that readers are familiar with the entire estimating process even before setting foot on the jobsite      **2400 Business Books**

Newark Public Library. Business Branch, Linda Huckel Morley, Adelaide Cecilia Knight, 1920      **The Insurance Observer** ,1916      **Engineering News and American Contract Journal** ,1908      **Engineering News** ,1908      Architecture and Building ,1917      Engineering-contracting ,1907      **Scientific and Technical Books and Serials in Print** ,1989  
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