

## 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

**Rachel S Tattersall**



## 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      **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      **Residential Building Cost Guide** ,1999      Industrial Security David L. Russell,Pieter C. Arlow,2015-03-12 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      2400 Business Books Newark Public Library. Business Branch,Linda Huckel Morley,Adelaide Cecilia Knight,1920      The Insurance Observer ,1916      **Engineering News** ,1908      **Engineering-contracting** ,1907      *Architecture and Building* ,1917      Scientific and Technical Books and Serials in Print ,1989      **Engineering and Contracting** ,1909      Building Age ,1926      Resources in Education ,1977-10      **The Bricklayer, Mason and Plasterer** ,1915      *Subject Guide to Books in Print* ,1993      **Engineering Record, Building Record and Sanitary Engineer** ,1909

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