

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

KJ Lindholm-Leary



Lecture Notes On Construction Cost Estimating Guide:

Cultural Landscapes Inventory Professional Procedures Guide Robert R. Page,1998 **The Building Estimator's Reference Book** ,1921 The Building Estimator's Reference Book Frank Rabold Walker,1919 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 Construction Cost Management Keith Potts,Nii Ankrah,2014-01-23 In this updated and expanded second edition Keith Potts and Nii Ankrah examine key issues in construction cost management across the building and civil engineering sectors both in the UK and overseas Best practice from pre contract to post contract phases of the project life cycle are illustrated using major projects such as Heathrow Terminal 5 Crossrail and the London 2012 Olympics as case studies More worked examples legal cases case studies and current research have been introduced to cover every aspect of the cost manager s role Whole life costing value management and risk management are also addressed and self test questions at the end of each chapter support independent learning This comprehensive book is essential reading for students on surveying and construction management programmes as well as built environment practitioners with cost or project management responsibilities **Technical Literature** Harwood Frost,Charles MacCaughey Same,1907 Each number includes section Index to technical articles in current periodical literature Jan Mar 1907 Index to current technical literature **Estimating Tables for Home Building** Paul I. Thomas,1986 Produce accurate estimates for nearly any residence in just minutes This handy manual has the shortcuts and tables you need to find the quantity of materials and labor for most residential construction Includes overhead and profit how to develop unit costs for labor and materials and how to

be sure you've considered every cost in the job Written by an expert in the field **Resources in Education** ,2001

Construction Project Manager's Pocket Book Duncan Cartlidge,2024-07-18 The third edition of the Construction Project Manager's Pocket Book continues to guide and educate readers on the broad range of essential skills required to be a successful construction project manager The book introduces the generic skills required by any project manager before tackling the core skills and activities of a construction project manager with direct reference to the RIBA Plan of Work and the OGC Gateway Key features and coverage in the new edition include a step by step explanation of construction project management from pre construction to occupancy hard and soft skills including ethics leadership team building procurement strategies supply chain and contract management feasibility studies development appraisals environmental issues digital tools and occupancy activities The updates in this new edition take account of all regulatory and legislative changes and also changing market conditions and working trends This is the ideal concise reference that no project manager construction manager architect or quantity surveyor should be without **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 3D 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 Department of Housing and Urban Development--independent agencies appropriations for 1987 United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies,1986 The American Architect ,1929 **Engineering and Contracting** ,1922 **The Technical Review** ,1920 **Resources in Vocational Education** ,1978 **Residential Building Cost Guide** ,1999 Accountants' Index ,1921 **2400 Business Books and Guide to Business Literature** Linda H. Morley,Adelaide C. Kight,1920 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1949 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals **American Architect and the Architectural Review** ,1921

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with detailed color photographs about how ...