

Fall 2023

CE 616-101: Construction Cost Estimating

Giri Venkiteela

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JOHN A. REIF, JR. DEPARTMENT OF
**CIVIL AND ENVIRONMENTAL
 ENGINEERING**



CE 616 - Construction Cost Estimating Fall 2023

Text: Estimating In Building Construction, Eighth Edition, Frank R. Dagostino and Steven J. Peterson
 Published By: Prentice Hall

Instructor Information

Instructor	Email	Office Hours
Giri Venkiteela	Venkitee@njit.edu	Instructor office location - Webex and office hour times- furnished upon request vis e-mail.

Prerequisite: CE 610

Course Description: This course objective is to learn construction cost estimation by understanding basic principles, advanced computerized tools and current research.

Course Outcomes: Upon successful completion of this course, students should specifically be able to do the following:

1. Understand the estimating and quantity take-off process and how they are associated with construction cost control.
2. Understanding the construction bidding process
3. Knowledge on current tools and technologies used in construction cost estimation

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Grading:

Midterm	30%
Discussion Forums	15%

Exercises/ Learning Activities	20%
Bidding Project	30%
Knowledge Checks/Reflections	5%

Syllabus and Schedule:

Week	Topic	Reading/Assignment	Due Dates
1	Introduction to Estimating and Contract Documents	Chap 1 Discussion #1	Initial Post-Thurs Peer Reply-Sun
2	Contracts, Bonds, Insurance Project Manual	Chap 2, Chap 3, Chap 6, Chap 7 and Chap 8 Module 2 Assignment Discussion#2	Sunday Initial Post-Thurs Peer Reply-Sun
3	Estimate Quantity Takeoff	Chap 4, Chap 5 and and Chap 21 Module 3 Assignment Discussion#3	Sunday Initial Post-Thurs Peer Reply-Sun
4	Excavation	Chap 10 Module 4 Assignment Discussion#4	Sunday Initial Post-Thurs Peer Reply-Sun
5	Masonry, Metal, Wood	Chap 12, Chap 13 and Chap 14 Module 5 Assignment Discussion#5	Sunday Initial Post-Thurs Peer Reply-Sun
6	Concrete Estimating	Chap 11	
7	Midterm Exam	Midterm Exam	
8	Bidding Project Assignment	Module 8 Assignment Discussion#6	Sunday Initial Post-Thurs Peer Reply-Sun
9	Thermal and Moisture Protection Doors and Windows Finishes	Chap 15, Chap 16 and Chap 17 Module 9 Assignment Discussion#7	Sunday Initial Post-Thurs

			Peer Reply-Sun
10	Mechanical Insulation Estimating HVAC/Plumbing Industrial Equipment	Chap 19 and Chap 20 Module 10 Assignment Discussion#8 Project Check in	Sunday Initial Post-Thurs Peer Reply-Sun
11	Types of Construction Projects Types of Construction Users Business Development in the Construction Industry	Module 11 Assignment Discussion#9	Sunday Initial Post-Thurs Peer Reply-Sun
12	Value Engineering	Module 12 Short Quiz Discussion#10 Project Check in	Initial Post-Thurs Peer Reply-Sun
13	Students work on bidding project	Discussion-Project-related questions	
14	Final Project Revisions	Discussion-Reflections Final Project Revisions	Initial Post-Thurs Peer Reply-Sun
15	Bidding Project Due	Submit Bidding Projects	TBD