



CE 616 - Construction Cost Estimating Fall 2024

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 - Zoom 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

Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at: <http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university. If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu

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