

## **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	Venkitee@njit.edu	Instructor office location - Webex and office hour times-
Venkiteela	-	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	
Discussion Forums	15%

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

## Syllabus and Schedule:

We	ekTopic	Reading/Assignment	<b>Due Dates</b>
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	Sunday Initial Post- Thurs Peer Reply-
3	Estimate	Discussion#2 Chap 4, Chap 5 and and Chap 21 Module 3 Assignment	Sun Sunday Initial Post-
	Quantity Takeoff	Discussion#3	Thurs Peer Reply- Sun
4	Excavation	Chap 10  Module 4 Assignment  Discussion#4	Sunday Initial Post- Thurs Peer Reply-
5	Masonry,Metal,Wood	Chap 12, Chap 13 and Chap 14  Module 5 Assignment  Discussion#5	Sun Sunday Initial Post- Thurs Peer Reply- Sun
6	Concrete Estimating	Chap 11	Curi
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	Sunday
	11VAO/1 lumbing maastnar Equipment	Module 10 Assignment	Initial Post- Thurs
		Discussion#8 Project Check in	Peer Reply- Sun
11	Types of Construction Projects Types of Construction Users	Module 11 Assignment	Sunday
	Business Development in the Construction Industry	relopment in the Construction  Discussion#9	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	Initial Post- Thurs Peer Reply-
		Final Project Revisions	Sun
15	Bidding Project Due	Submit Bidding Projects	TBD