

SHIV NADAR UNIVERSITY

UNDERGRADUATE COURSE PROPOSAL

- I. COURSE TITLE:** Estimating, Costing & Project Management
- II. COURSE CODE (PLEASE CROSS-LIST IF APPLICABLE):** CED 307
- III. COURSE CREDITS (L:T:P):** 3:1:0
- IV. COURSE TYPE:** Major / UWE
- V. PREREQUISITE/S (IF ANY):** None
- VI. COURSE COORDINATOR/INSTRUCTOR:** Dr. Shalini Rankavat
- VII. SCHOOL/ DEPARTMENT:** SOE / Civil
- VIII. DISCIPLINES TO WHICH THE COURSE MAY BE OF INTEREST:** All
- IX. OBJECTIVE:** The course objective is introducing the student to the fundamentals of quantity surveying, cost estimating and specifications.
- X. Learning Outcomes:** After studying the course the students would learn
- (a) how to select a project,
 - (b) how to plan and prepare cost estimates,
 - (c) how to procure a construction project,
 - (d) how to implement, and
 - (e) how to monitor a project.
- XI. COURSE CONTENT**
- **CHAPTER 1:** Introduction to Construction Projects, stakeholders, phases in a project
 - **CHAPTER 2:** Construction Economics
 - **CHAPTER 3:** Client's Estimation of Project Cost
 - **CHAPTER 4:** Construction Contract, Cost estimating and bidding- Contractor's perspective: material estimates, labour and equipment costs
 - **CHAPTER 5:** Construction Planning, Project selection using time value of money concept, Project planning and network analysis-PERT, CPM, and Precedence Network
 - **CHAPTER 6:** Resource scheduling, Time Cost trade off
 - **CHAPTER 7:** Project Monitoring and Control system, Time -cost monitoring and control using S-curve and earned value analysis
 - **CHAPTER 8:** Construction Claims, Disputes, and Project Closure
 - **CHAPTER 9:** Introduction to use of project management software
- XII. RECOMMENDED BOOK(S):**
Kumar Neeraj Jha, "Construction Project Management", Pearson.

XIII. ASSESSMENT SCHEME:

Assignments –	20%
Quizzes -	10%
Mid-term examination –	30%
Final examination –	40%