

GUJARAT TECHNOLOGICAL UNIVERSITY

CIVIL (CONSTRUCTION ENGINEERING AND MANAGEMENT) (14)

CONSTRUCTION CONTRACT MANAGEMENT

SUBJECT CODE: 2721403

SEMESTER: II

Type of course: MAJOR ELECTIVE - II

Prerequisite: NA

Rationale: NA

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks		Practical Marks				
			ESE (E)	PA (M)	ESE (V)		PA (I)			
					ESE	OEP	PA	RP		
4	2#	0	5	70	30	30	0	10	10	150

Content:

Sr. No.	Content	Total Hrs	% Weightage
1	Introduction to Law Introduction to law, Laws governing structure & Working of Construction Firms.	06	
2	Contracts Outline Contracts, types of construction contracts, Evaluation of contract documents, need for documents, present stage of national and international contract documents, roles and functions of participants to the contract.	08	
3	Tendering Process Preparation of tender documents estimating, pre-qualification, bid evaluation, award of contract, project financing and contract payments, contracts close out and completion, E-tendering.	08	
4	Contract Conditions. Clarification by parties to contract, obligations and responsibilities of the parties, protection and indemnification, bonds and insurance, subsurface conditions, inspection of work, change of work, rejected work and deficiencies.	08	
5	Arbitration Causes and resolution of disputes, settlement for claims and extra items, arbitration. Comparison Laws-Agreements, Appointment of Arbitrators, Conditions of Arbitrations, Powers and duties of Arbitrator, Enforcement of Award-costs, Arbitration Act old & new.	06	
6	Specifications Definitions, relationship with drawings, necessity/purpose, advantages/benefits, organization of specification, drafting/writing the specifications, types of specifications.	08	
7	Administration Management Proper record keeping in contract administering, establishment of standard	06	

	procedures, coordination between various agencies involved, providing data for interpretation of contract clauses, Special aspects of contract management		

Reference Books:

1. Explanation of Indian Contract Act: Mulla and Sanjeeva Rao, B.D. Virmani, B.T.Gajaria.
2. Handbook of Contracts: Hudson.
3. Construction Contracting, Clough Richarch, John Wiley & Sons, New York, 1986.
4. Construction Contract Management , Prakash V.A., NICMAR, Bombay
5. Estimating and Costing in Civil Engineering Theory and Practice by B.N.Dutta, UBS publishers, distributor's private limited.
6. Gajaria G.T., "Laws Relating to Building and Engineering Contracts in India ", M.M.Tripathi Private Ltd., Bombay, 1982.
7. Jimmie Hinze, Construction Contracts, McGraw Hill, 2001.
8. Joseph T. Bockrath, Contracts and the Legal Environment for Engineers and Architects, McGraw Hill, 2000.

Course Outcome:

After learning the course the students should be able to:

1. apply legal aspects of construction projects, of construction contract, of issues related to contract administration.
2. apply various disputes resolution techniques including arbitration.

List of Tutorials:

- (1) Study of one building contract.
- (2) Study of tender filling procedure by taking one sample tender- part 1
- (3) Study of tender filling procedure by taking one sample tender- part 2
- (4) Study of tender opening procedure and study of contract clauses.
- (5) Study of legal & technical interpretation of contract clauses.
- (6) Record keeping on construction projects - case study by visit of any construction project site office & study of live documents maintained.
- (7) Study of types of disputes on construction projects.
- (8) Study of minimum two disputes resolution by arbitration.

[1] Report-1 Various studies on contract clauses , typical building contract

[2] Report- 2 Study on Book keeping and record management of construction projects to be fulfilled by preparing report by visiting construction project site office, consultancies and detail exploration of documents management during life cycle of

[3] Report-3 Atleast two case studies on arbitration / dispute resolution technique and preparation of review report

[4] Assignment works related to above course content.

Review Presentation (RP): The concerned faculty member shall provide the list of peer reviewed Journals and Tier-I and Tier-II Conferences relating to the subject (or relating to the area of thesis for seminar) to the students in the beginning of the semester. The same list will be uploaded on GTU website during the first two weeks of the start of the semester. Every student or a group of students shall critically study 2 papers, integrate the details and make presentation in the last two weeks of the semester. The GTU marks entry portal will allow entry of marks only after uploading of the best 3 presentations. A unique id number will be generated only after uploading the presentations. Thereafter the entry of marks will be allowed. The best 3 presentations of each college will be uploaded on GTU website