



**Kadi Sarva Vishwavidyalaya's
LDRP Institute of Technology & Research
Gandhinagar-382 015**



M.E.(Civil) (Infrastructure Engineering), Semester: II

Subject Name: Construction Contracts, Tendering and Arbitration MECV201

A. Learning objectives: The objective of this course is

- To develop concepts related with Construction contracts & Tendering which involves Planning, management and Execution of the project with economic development & prosperity.
- To learn basic principles of Construction contracts, Tendering & Arbitration in the context of various construction aspects.
- To study principles and specifications for making tender documents
- To finalize quantities of items and labour requirement of civil engineering Works
- To prepare estimate of the civil engineering work & Specification of construction items
- To know the co-relation of client, consultant and contractor for the construction project with practical aspects

B. Teaching scheme (credits and hours):

Teaching Scheme				Credit Scheme			Evaluation Scheme				
Lect Hrs	Tut Hrs	Pract. Hrs	Total	Theory	Pract/TW	Total	UE	IE	CIA	PRAC/VIVA	Total
04	02	00	06	04	01	05	70	30	20	30	150

C. Detailed Syllabus:

- 1. Introduction:** To law, Indian legal system, Laws governing structure & Working of Construction Organization Firms, Laws of Tort
- 2. Construction Contract Documents:**
Evaluation of contract documents, need for documents, present stage of national and international contract documents, types of construction contracts, roles and functions of parties to the contract.
- 3. Stages in Contracting:**
Preparation of tender documents estimating, pre-qualification, bid evaluation, award of contract, project financing and contract payments, contracts close out and completion.
- 4. Stages in Contracting:**
Preparation of tender documents estimating, pre-qualification, bid evaluation, award of contract, project financing and contract payments, contracts close out and completion.
- 5. Contract Conditions:**
Interpretation by parties to contract, obligations and responsibilities of the parties, protection and indemnification, bonds and insurance, laws and liens, subsurface conditions, inspection of work, change of work, rejected work and deficiencies.
- 6. Office Engineering:**
Proper record keeping in contract administering, establishment of standard procedures, coordination between various agencies involved, providing data for interpretation of contract clauses Special aspects of contract management



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7. Arbitration

Comparison of Actions and Laws - Agreements , subject matter-Violations-Appointment of Arbitrators-Conditions of Arbitrations-Powers and duties of

Comparison of Actions and Laws , Agreements ,subject matter Violations-Appointment of Arbitrators-Conditions of Arbitrations, Powers and duties of Arbitrator-Rules of Evidence-Enforcement of Award-costs. Causes and resolution of disputes, settlement of claims and extra items, arbitration Indian Contract Act, Arbitration Act

D. Lesson Planning:

Unit No	Topics	Lectures (Hours)	Weightage
1	Introduction	8	10
2	Construction Contract Documents	10	15
3	Stages in contracting	10	15
4	Contract conditions	10	15
5	Office Engineering	10	15
6	Arbitration	12	30
	Total	60	100

Term Work :

Sr.	Name of the Tutorials
1	Study of building contract.
2	Study of tender filling procedure by taking one sample tender- part-I
3	Study of tender filling procedure by taking one sample tender- part-II
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.

E. Instructional Method and Pedagogy (Continuous Internal Assessment (CIA) Scheme)

- At the start of course, the course delivery pattern, prerequisite of the subject will be discussed.
- Lecture may be conducted with the aid of multi-media projector, black board, OHP etc.



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- Attendance is compulsory in lectures and practical which carries marks.
- At regular intervals assignments will be given. Students should submit all assignments during given period.
- Classroom participation and involvement in solving the problems in Tutorial rooms Carries Marks
- Internal exam of 30 marks will be conducted as a part of Mid semester evaluation.
- The course includes a practical, where students have an opportunity to build an appreciation for the concept being taught in lectures.

F. Students Learning Outcomes:

At the end of the course,

- Adopting the ethical knowledge for making construction contracts & Tenders.
- The students will get the experience to make Estimation, Bill of Quantity for construction work.
- The student will get in depth knowledge of special aspect of tender & contract management.
- To learn various aspects of Arbitration to resolution of disputes in construction projects.

G. Recommended Study Materials

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