INSTITUTE	**FACULTY OF TECHNOLOGY**
PROGRAM	**BACHELOR OF TECHNOLOGY (CIVIL ENGINEERING)**
SEMESTER	**6**
COURSE TITLE	**TENDER AND CONTRACT MANAGEMENT**
COURSE CODE	**01CI0621**
COURSE CREDITS	**4**

Objective:

1 To understand the importance of specifications, its types and drafting general specifications for civil works.
2 To prepare comprehensive tender documents and analyze bids.
3 To understand the tendering, contracting and bidding process in civil engineering projects.
4 To understand the types of contract and its application in construction projects.

Course Outcomes: After completion of this course, student will be able to:

1 Interpret the types of contracts and contracting terminologies involved in the projects, disputes and arbitration process.
2 Analyze the types of tenders and various terms associated with tender
3 Prepare general specifications for civil works
4 Practice the Bidding and Tendering Process for a project.

Pre-requisite of course:NA

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
3	1	0	50	30	20	25	25

Contents : Unit	Topics	Contact Hours
1	**Introduction to Contract** Introduction: Definition and legal issues in contract, Essential requirement of a contract, Characteristics of a good contract, Legal enforceability of contract, termination of contracts, Stake holders in construction contracts, Overview of Activities in Contract Management., Conditions of Contracts: General conditions & special conditions, Contract conditions for payments, Time delay, Scope changes, Extra claims, Termination of contracts, subcontracting. Disputes and Arbitration, Legal requirements of a valid contract	8

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Contents : Unit	Topics	Contact Hours
2	**Construction Contracts** Type of construction contracts: Lump sum contracts, Fixed price contracts, Percentage rate contracts, Cost plus contracts, Target contracts, Design-Build contracts, Turn-key contracts, BOT contracts. Parties to a Contract, Contract Formation,, Common contract divisions: Notice to proceed, rights and duties and responsibilities of various parties, Contract Duration and Price.	10
3	**Tendering** Introduction: Types and Process of tendering, Tender notice, Bid security, Prequalification process, Bidding strategy, Tender submission and evaluation, Tender rejection, Security deposits, Contract agreement & contract documents, Performance Parameters: Delays, penalties and liquidated damages, Suspension and Termination of Tender.	12
4	**Specification** Introduction: Definition, Objectives and importance of specification, Principles of drafting specifications, Types of Specification: Drafting general specifications and detailed specifications for various civil work items, Specification of materials, specification of works.	12
Total Hours		**42**

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	**Tutorial-1** Collection of details regarding Expression of Interest (EOI), Requests for Quotation (RFQ) and Requests for Proposals (RFP)	2
2	**Tutorial-2** Bill of Quantity Preparation (BOQ)	3
3	**Tutorial-3** Drafting detailed specifications of different types of building works (Excavation, foundations, superstructure and finishing)	3
4	**Tutorial-4** Preparation of Tender Notice: Tendering process Security and performance bonds Risk assessments of contractual provisions Arbitration/dispute resolution	3
5	**Tutorial-5** Preparation of Preliminary Contract document Lumpsum Contract Item rate Contract Cost plus percentage contract	3
Total Hours		**14**

Textbook :

1 Civil Engineering Contracts and Estimates , B. S. Patil, Universities Press, 2009

2 The Indian Contract Act (9 of 1872), 1872, Bare Act- , Professional Book Publishers., 2006

Textbook :

3 The Arbitration and Conciliation Act, Act, The Arbitration and Conciliation Act, 2006

4 Law of contract Part I and Part II, Dr. R.K. Bangia, Allahabad Law Agency., 2005

References:

1 Construction Contracts - Law and Management, Construction Contracts - Law and Management, John Murdoch & Will Hughes, Taylor & Francis Group, 2016

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking / Creative**
20.00	30.00	20.00	15.00	10.00	5.00

Instructional Method:

1 At the start of course, the course delivery pattern, prerequisite of the subject will be discussed

2 Lectures will be taken in class room with the use of multi-media presentations, white board– mix of both.

3 Attendance is compulsory in lectures and laboratory which carries a 5% component of the overall evaluation.

4 Minimum two internal exams will be conducted and average of two will be considered as a part of 15% overall evaluation

5 Assignments based on course content will be given to the students at the end of each unit/topic and will be evaluated at regular interval. It carries a weightage of 5%.

6 Surprise tests/Quizzes will be conducted which carries 5% component of the overall evaluation.

Supplementary Resources:

1 https://eprocure.gov.in/eprocure/app

2 https://onlinecourses.nptel.ac.in/noc22_lw06/preview