

Panipat Institute of Engineering and Technology

Department of Civil Engineering

For Lecture's in **B. Tech. Civil Engineering Vth Semester**

Course No.	Title of the Course	Course Structure	
HM-255A	Professional Practice, Law & Ethics	L-T-P	4-0-0
COURSE OUTCOMES (CO)			
CO1	To familiarise the students to what constitutes professional practice, introduction of various stakeholders and their respective roles; understanding the fundamental ethics governing the profession		
CO2	To give a good insight into contracts and contracts management in civil engineering, dispute resolution mechanisms; laws governing engagement of labour.		
CO3	To give an understanding of Intellectual Property Rights, Patents.		
CO4	To make the students understand the types of roles they are expected to play in the society as practitioners of the civil engineering profession		
UNIT NO`	Topics To Be Covered	Lecture Nos	
1	Respective roles of various stakeholders	1-3	
	Standardization Bodies	4-6	
	Professional bodies	7-8	
	Developers	9-10	
	Consultants	11-12	
	Contractors	13-14	
	Manufacturers/ Vendors/ Service agencies	15-16	
II	Definition of Ethics, Professional Ethics, Business Ethics, Corporate Ethics	17	
	Engineering Ethics, Personal Ethics;	18	
	Profession, Professionalism, Professional Responsibility, Professional Ethics	19	
	Conflict of Interest, Gift Vs Bribery, Environmental breaches, Negligence	20-22	
	Deficiencies in state-of-the-art; Vigil Mechanism, Whistleblowing, protected disclosures.	23	
III	Indian Contract Act, 1972 and amendments covering General principles of contracting; Contract Formation & Law;	24-27	
	Privacy of contract; Various types of contract and their features; Valid & Voidable Contracts; Prime and sub-contracts; Joint Ventures & Consortium; Complex contract terminology;	25	
	Tenders, Request For Proposals, Bids & Proposals; Bid Evaluation; Contract Conditions & Specifications; Critical Red Flag, conditions; Contract award & Notice To Proceed	26	
	Variations & Changes in Contracts; Differing site conditions; Cost escalation; Delays, Suspensions & Terminations; Time extensions & Force Majeure; Delay Analysis; Liquidated damages & Penalties	27	
	Insurance & Taxation; Performance and Excusable Non-performance; Contract documentation	28	
	Contract Notices; Wrong practices in contracting (Bid shopping, Bid fixing, Cartels); Reverse auction	29	

	Case Studies; Build-Own-Operate & variations; Public- Private Partnerships; International Commercial Terms	30
IV	Role of Labour in Civil Engineering	31
	Methods of engaging labour- on rolls, labour sub-contract	32-34
	piecerate work; Industrial Disputes Act, 1947; Collective bargaining; Industrial Employment (Standing Orders) Act, 1946	35
	Workmen's Compensation Act, 1923; Building & Other Construction Workers (regulation of employment and conditions of service) Act (1996)	36-37
	Rules (1998); RERA Act 2017, NBC 2017	38-39

Sr. No.	Course Coordination Committee	Name	Contact No	E Mail Id
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