

CONSTRUCTION CONCLAVE 2.0

Time schedule for Technical Workshop with Civil Engineering Department, IIT Kharagpur

Venue: Seminar Room, IIT Kharagpur

Duration: 7th and 8th Aug 2025

Timing	Topics	Subtopics	Presenter
Day- 1; Thursday; 7.08.25			
09:15 – 10:00	Inauguration		
10:00 – 11:00	Preventive measures against rising durability issues in RC construction (Preconstruction)	1. Factors contributing to faster deterioration in structures due to corrosion of rebar: a) Inferior quality of concrete mix, b) Incorrect construction practices, c) Environmental Impact. 2. Preventive actions.	AS
Tea Break			
11:15 – 12:30	Health Assessment and Retrofitting Techniques (Post - Construction)	1. Review of several non-destructive and destructive tests for health assessment of structures 2. Retrofitting techniques to repair different structural units.	DM
Lunch Break			
14:00 – 15:15	Failure of RC structures – case studies	Discussion on different RC structural failure case studies	AS
Tea Break			
15:30 -16:00	Session on TSL's initiatives to enhance construction quality in RC building	-Tiscon SD, CRS rebars, Sacrificial Anode for corrosion resistance, Mandrel application	Tata Steel
16:00 – 18:30	Visit to Laboratory and demonstration on Testing of steel and harden concrete	1. Overview of different testing facilities 2. Demonstration of non-destructive tests 3. Demonstration of compressive strength test of concrete 4. Demonstration of tests on rebar (uniaxial tension test, ring test)	AS, BB, DM
Day- 2; Friday; 8.08.25			
09:30–10:30	Review of some important concepts in analysis of frame structures	Idealization, loading, internal forces, analysis methods	BB
10:30–11:30	Computer modelling and dynamic analysis of multi-storied RC buildings	Demonstration through a software	DM / AS
Tea Break			
11:45 – 13:00	Seismic-resistant design of structures	Learnings from past events, Earthquake design philosophy, Importance of rebar ductility in structural behaviour during earthquake, structural detailing guidelines	DM
Lunch			
14:15 – 15:30	Geotechnical investigation: Different soil tests and interpretation of the results, calculation of SBC and pile capacities	Include case studies, foundation construction with shallow water table, understanding of soil investigation report	KD
15:30 – 16:30	Valedictory		

AS: Amit Shaw

BB: Biswanath Banerjee

DM: Damodar Maity

KD: Kousik Deb