



KUMARAGURU
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The Civil Chronicle

The magazine of the Department



JUNE – DECEMBER 2025

Industry partnerships, co-teaching, chapters, expos and a year of learning beyond the classroom

ACADEMIC YEAR 2025 – 26

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June – December 2025

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Where the Classroom Meets the Site

Every department says it wants to connect learning

with practice. Between June and December 2025, this one put that connection on the calendar, forty-one times.

The period opened quietly, with first-year students out on summer internships and faculty enrolled in NPTEL courses, and gathered pace through September, when the Department signed MoUs with Bentley Systems India and Fluidyn Consultancy within four days of each other. A five-year partnership with Adani Cement followed on 14 October. Each agreement is practical in intent: access to industry software and training, routes to internships and research, and a standing line to people who build things for a living.

October was the busiest month by far. Students worked through live highway bills of quantities with an NHAI engineer, watched a triaxial test unfold in the Soil Engineering Laboratory, heard from a scientist of the Ministry of Environment about sewage treatment and, within days, inaugurated two professional student chapters, CIOB and ICI. The Hack-A-Bit project expo turned embedded-course prototypes into a public showcase of 240 participants.

A department's work is not only what is photographed. It is every session, every partnership and every student who tried something new.

The academic side kept pace. The Department Advisory Board met on 13 November, with experts from NUS, NIT Calicut, VIT, KBR and ARCADIS, to review the UG and PG programmes under Regulation 2024, and in December a faculty member spent eleven days inside a design office so that classroom examples can come from live projects.

The pages that follow record every programme of the period, with photographs where we have them and with objectives and outcomes where we do not. We hope you will find something here to be proud of, and something to join next time.

The Editorial Team

Department of Civil Engineering, KCT

BY THE NUMBERS

The Period at a Glance

June – December 2025 · Academic Year 2025–26

41

Programmes recorded

3

Industry MoUs signed

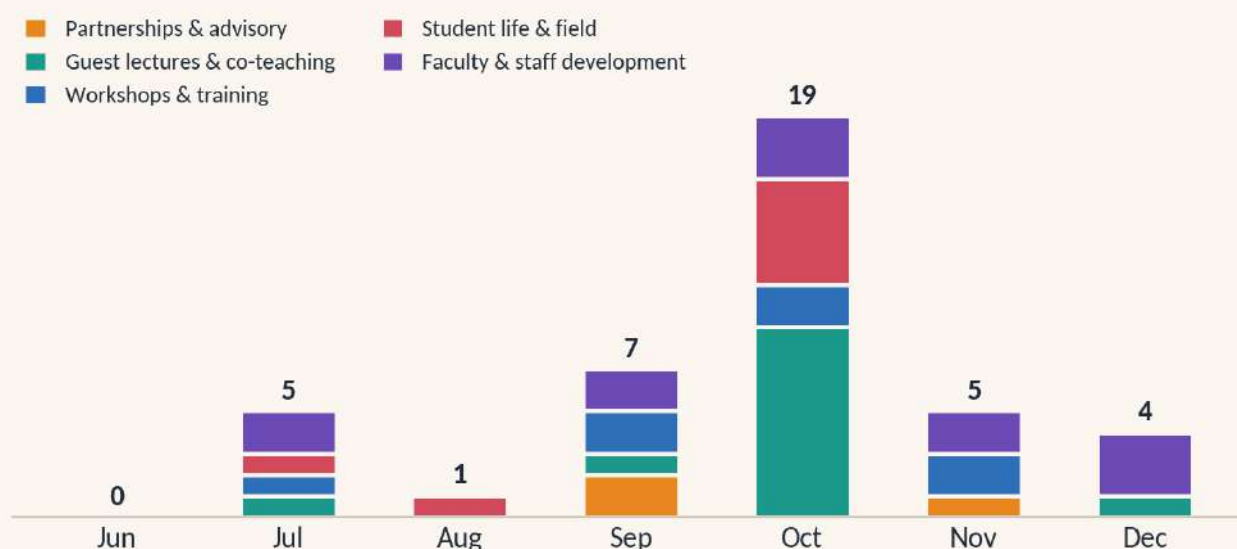
12

Co-teaching & guest sessions

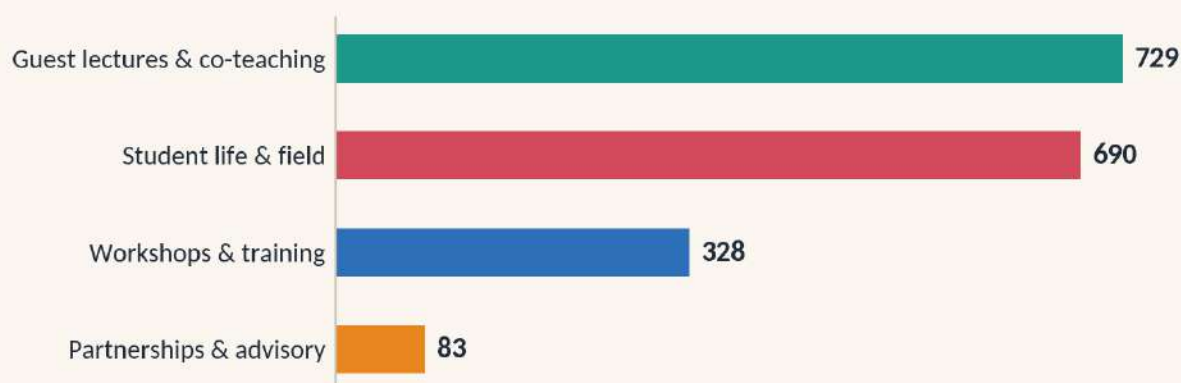
1,830

Participations recorded

Programmes by month and type



Recorded participation by type

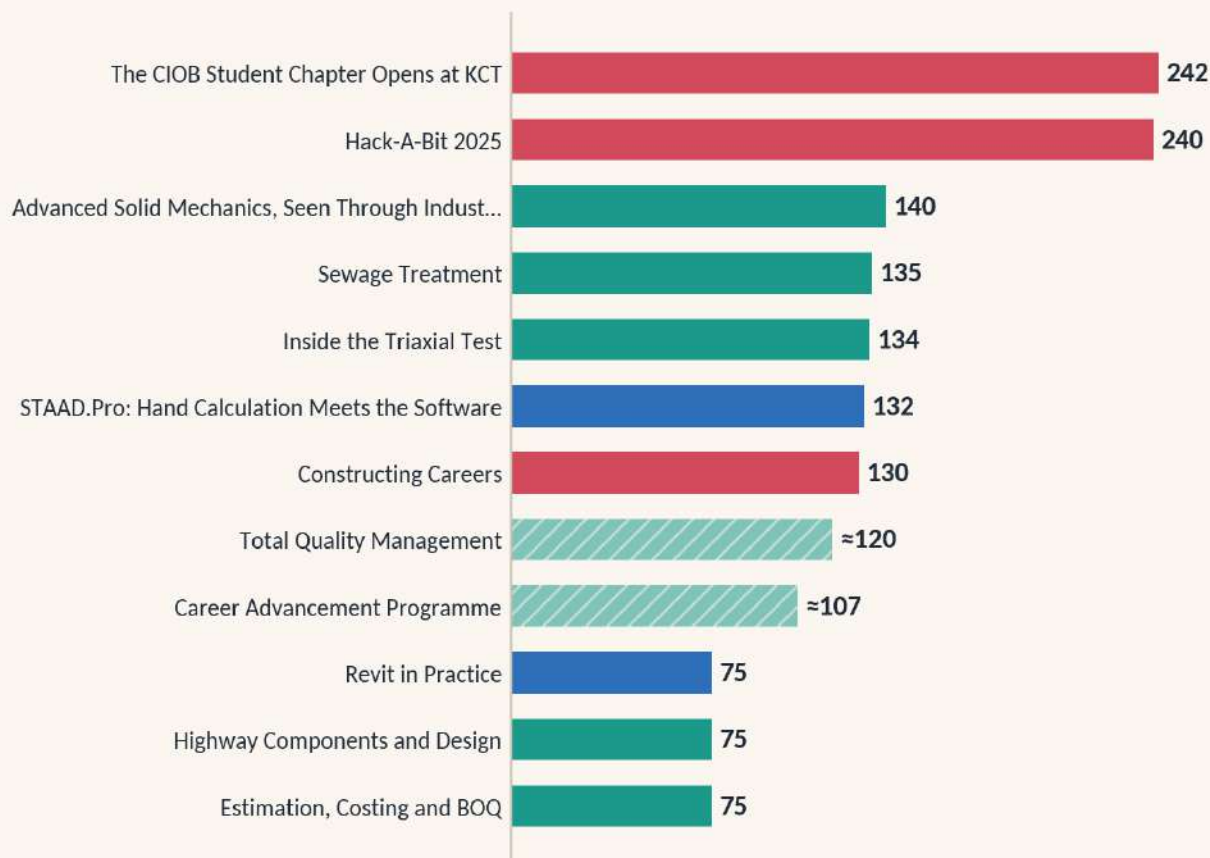


Participation counts only programmes with a recorded headcount; faculty-development entries (courses, conferences, visits) record no headcount and are counted as programmes, not participations.

Programmes by Participation

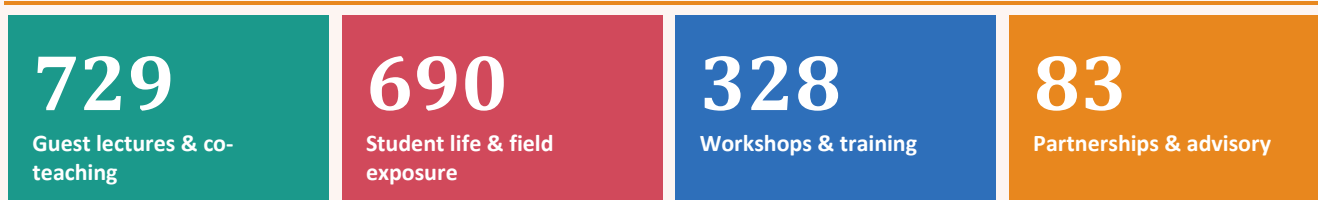
The twelve best-attended programmes of the period

Twelve largest programmes, by headcount



Solid bars are recorded attendance; hatched bars (≈) are expected headcounts taken from the programme record.

How participation splits by type



The CIOB Student Chapter Opens at KCT drew the largest headcount of the period, at 242 participants, followed by Hack-A-Bit 2025 with 240. Together, the twelve programmes charted above account for roughly 88 per cent of the 1,830 participations recorded in this issue.

The chart is a reminder that reach and depth are different measures: a large expo or lecture brings many students into contact with the Department, while a workshop or a signing ceremony may involve a few people whose work shapes what every later student experiences.

HIGHLIGHTS

Moments That Defined the Period

June – December 2025

1

Three industry MoUs in five weeks: Bentley Systems India (19 September), Fluidyn Consultancy (22 September) and Adani Cement FutureX (14 October 2025).

2

The CIOB Student Chapter was inaugurated on 14 October with 242 participants, followed by the ICI Students Chapter on 23 October.

3

A two-day FDP on MIDAS Bridge (18–19 July) brought 30 external faculty to campus alongside internal faculty, scholars and PG students.

4

The Department Advisory Board, with experts from NUS, NIT Calicut, VIT, KBR and ARCADIS, reviewed the UG and PG programmes on 13 November.

5

Twelve co-teaching and guest-lecture sessions from NHAi, Modish 3D Designers, Mithran Structures, Nature Science Foundation and others enriched the curriculum.

6

The Hack-A-Bit Project Expo (28 October) drew 240 participants, and 112 first-year students completed summer internships.

7

A faculty member completed an 11-day Industry Immersion Programme at Modish 3D Designers (8–19 December).

June · July · August

June – December 2025

June

The academic year began with first-year students completing summer internships across Tamil Nadu (June–July), an effort described in the Internships feature later in this issue. No scheduled Department programmes were recorded in June.

July

The recorded calendar opened on 1 July with faculty enrolled in an NPTEL course on sustainable engineering and life cycle analysis. On 18–19 July, thirty external faculty joined internal faculty, scholars and PG students for the MIDAS Bridge FDP. On 19 July, Soil Mechanics students heard from an IISc geologist online, while volunteers cleared plastic litter at Madukkarai forest.

1 Jul – 30 Sep 2025	● Sustainable Engineering Concepts and Life Cycle Analysis
18–19 Jul 2025	● MIDAS Bridge: Two Days of Hands-on Bridge Design
19 Jul 2025	● Rocks, Minerals and the Making of Soil
19 Jul 2025	● Clearing the Forest: A Plastic-Free Morning at Madukkarai
21 Jul – 10 Oct 2025	● Admixtures and Special Concretes

August

A single, well-attended programme marked August: Constructing Careers on 26 August, in which an industry leader spoke to 120 students about the many paths a civil engineering degree can open.

26 Aug 2025	● Constructing Careers: Paths Beyond the Obvious
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September

June – December 2025

September

September was the month of agreements. A research-methods workshop (16–17 September) and a career-guidance lecture on competitive exams (18 September) opened the month. On 19 September the MoU with Bentley Systems India was signed, the same day as an Autodesk Revit bootcamp; on 22 September a Fluidyn MoU and hands-on training followed. Faculty attended an analytics FDP at XIME and the Adani FutureX conclave on 26–27 September.

16–17 Sep 2025

- Research Efficiency: Smarter Tools for Literature Review and Data Analysis

18 Sep 2025

- Career Advancement Programme: A Roadmap for Competitive Exams

19 Sep 2025

- KCT and Bentley Systems India Join Hands

19–20 Sep 2025

- Anna University & Autodesk Two-Day Student Bootcamp

22 Sep 2025

- Fluidyn MoU: Bringing Environmental Modelling into the Classroom

26–27 Sep 2025

- Adani Cement FutureX: Building a Bridge Between Campus and Plant

26–27 Sep 2025

- Data Analysis with Jamovi and PLS-SEM using SmartPLS

October

June – December 2025

October

The busiest month of the period. Students watched a triaxial test (6 October), studied solid mechanics, biomedical waste and sewage treatment with expert speakers, and worked through highway estimation, design and safety with NHAI and industry engineers. The CIOB and ICI student chapters were inaugurated, Hack-A-Bit showed off student prototypes, and faculty travelled to Mumbai, Chennai and Brunei.

6 Oct 2025	● Inside the Triaxial Test: Soil Strength Made Visible
7–9 Oct 2025	● AeroDefCon 2025: Aerospace and Defence Meet in Chennai
9 Oct 2025	● Advanced Solid Mechanics, Seen Through Industry Eyes
9 Oct 2025	● PG Students at the Tamil Nadu Global Start-up Summit
10 Oct 2025	● Biomedical Waste: Treatment, Rules and Real Cases
13 Oct 2025	● Sewage Treatment: From Collection to Disposal
14 Oct 2025	● The CIOB Student Chapter Opens at KCT
14–16 Oct 2025	● IFAT India 2025: Water, Sewage, Solid Waste and Recycling
16 Oct 2025	● Estimation, Costing and BOQ: Highway Projects in Practice
16 Oct 2025	● Highway Components and Design: Insights from the Field
16–22 Oct 2025	● Freeze the Frame: A Pollution-Free Diwali Through the Lens
17 Oct 2025	● Safety Management in Infrastructure Projects
18–24 Oct 2025	● 10th Brunei International Conference on Engineering and Technology
22 Oct 2025	● Earthquake Resistant Structures: An Alumnus Returns to Teach
22 Oct 2025	● Revit in Practice: From Detailing to the Layout Sheet
23 Oct 2025	● Total Quality Management: ISO Systems in Practice
23 Oct 2025	● Indian Concrete Institute Students Chapter Inaugurated
24 Oct 2025	● STAAD.Pro: Hand Calculation Meets the Software
28 Oct 2025	● Hack-A-Bit 2025: Prototypes, Problem-solving and Pride

November - December

June – December 2025

November

An online course on indoor air quality modelling ran from 1 to 23 November. A faculty member visited CSIR-NEERI, Nagpur (11–14 November), the Department Advisory Board met on 13 November, faculty trained on Revit (17–19 November), and PG students gained hands-on exposure to analytical instruments on 27 November.

- | | |
|----------------|---|
| 1–23 Nov 2025 | ● Indoor Air Quality Modelling: Basics to Policy Applications |
| 11–14 Nov 2025 | ● CSIR-NEERI, Nagpur: Exploring Collaboration in Environmental Research |
| 13 Nov 2025 | ● Department Advisory Board Shapes the Road Ahead |
| 17–19 Nov 2025 | ● Autodesk Revit Fundamentals for Faculty |
| 27 Nov 2025 | ● Analytical Instruments Up Close: HPLC, AAS and UV-Vis |

December

The year's first term closed with a 1C1C lecture on xenobiotics (5 December), an eleven-day faculty industry immersion at Modish 3D Designers (8–19 December), a short-term course on modelling pedestrians and disordered traffic (10–14 December) and the RHEAP symposium on river health at NIT Karnataka (29–30 December).

- | | |
|----------------|--|
| 5 Dec 2025 | ● Xenobiotics: How Chemicals and Microbes Shape Ecosystems |
| 8–19 Dec 2025 | ● Eleven Days in the Design Office: A Faculty Immersion |
| 10–14 Dec 2025 | ● Beyond Cars on Lanes: Modelling Pedestrians, Cyclists and Disordered Traffic |
| 29–30 Dec 2025 | ● River Health Evaluation and Protection: RHEAP 2025 |

Partnerships & Advisory

Where campus and industry shake hands

Three MoUs signed in five weeks and an Advisory Board meeting that reviewed the programmes under Regulation 2024. This section records the agreements and advice that connect the Department to the industries it serves.

I N T H I S S E C T I O N

19 Sep 2025	KCT and Bentley Systems India Join Hands	12
22 Sep 2025	Fluidyn MoU: Bringing Environmental... ..	13
13 Nov 2025	Department Advisory Board Shapes the Road... ..	14



PAC RECOMMENDATIONS

PAC Recommended Target for COs:

Course Category	Recommended Target Levels
High Performing Courses	80% of students achieving 60% of marks
Moderate Performing Courses	70% of students achieving 60% of marks
Low Performing Courses	60% of students achieving 60% of marks

PAC Recommended Targets for POs:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
B.E. Civil Engg.	75	75	75	75	75	75	75	75	75	75	75	75	75
PG Programs	80	80	80	80	80	80	80	80	80	80	80	80	80



MoU SIGNING

KCT and Bentley Systems India Join Hands

A technology partnership to put industry-standard infrastructure software in the hands of every Civil Engineering student.

PARTICIPATION

**Signing ceremony
(faculty delegation)**

WHEN

19 September 2025

WHERE

Taj Wellington Mews, Chennai

The first event under this MoU followed on 7 January 2026, when the Director of Bentley Education introduced the Education Hub to over a hundred students and faculty.

ABOUT THE PROGRAMME

Modern infrastructure is designed, analysed and managed on digital platforms, and Bentley Systems is one of the most widely used names in that space. The Department set out to sign a Memorandum of Understanding with Bentley Systems India as an industry technology partner, with a clear purpose: to enhance the employability of its students by making the same tools used on live projects part of their learning.

WHAT HAPPENED

The MoU between Kumaraguru College of Technology and Bentley Systems India Private Limited was executed on 19 September 2025, and the Department was represented at the signing in Chennai by Mr. Nishant. The agreement describes a sustainable partnership in which Bentley supports KCT in setting up a Centre of Excellence for infrastructure innovation, provides complimentary access to the Bentley Education programme for eligible students and faculty, and proposes authorised training partners to deliver product training.

WHY IT MATTERS

Employers look for graduates who can already work on the platforms their projects run on. A formal partnership turns software exposure from a one-off workshop into a standing part of the programme.

KEY OUTCOMES

- Access to the Bentley Education Hub for students and faculty
- Software resources including MicroStation, OpenRoads and OpenFlows for design, roadway and hydraulic modelling
- Support for a dedicated Centre of Excellence in infrastructure innovation
- Provision to integrate Bentley content into curriculum and lab teaching
- A pipeline of industry-led training for students and faculty

PARTNER

Bentley Systems India Pvt. Ltd., New Delhi

COORDINATED BY

Mr. Nishant (represented the Department)

MoU + HANDS-ON TRAINING

Fluidyn MoU: Bringing Environmental Modelling into the Classroom

An MoU and a hands-on software session opened a new route to air-quality and fluid-dynamics simulation for environmental engineering students.

PARTICIPATION

46

participants

40 students, 6 faculty

WHEN

22 September 2025

WHERE

C Block, KCT

Participants rated the programme "Good" in the feedback collected after the session.

ABOUT THE PROGRAMME

Air-quality assessment and fluid-flow simulation are now routine parts of environmental impact studies, industrial safety analysis and urban planning. To connect classroom theory with the software professionals actually use, the Department signed an MoU with Fluidyn Consultancy Pvt. Ltd. and paired it with a full-day hands-on session on Fluidyn software.

WHAT HAPPENED

The session was held in C Block and led by Mr. Sreejith K. V. of Fluidyn Consultancy, with Dr. Prakash Doraiswamy of the World Resources Institute contributing an air-quality perspective. Forty students and six faculty members worked through the key modules of the software, from setting up simulations for environmental modelling and fluid dynamics to interpreting the results for process analysis. The MoU itself was signed on the same day.

WHY IT MATTERS

Modelling tools let students test ideas on a screen before they meet the field. Early exposure builds the analytical confidence that environmental consultancies and regulators look for.

KEY OUTCOMES

- Hands-on experience in Fluidyn software for environmental modelling and fluid-dynamics simulation
- Understanding of the key modules and functions relevant to industrial applications
- Industrial application modules introduced into environmental engineering teaching
- A formal partnership with Fluidyn Consultancy for future training and collaboration

RESOURCE PERSONS

Mr. Sreejith K. V., Senior Manager, Fluidyn Consultancy Pvt. Ltd.; Dr. Prakash Doraiswamy, Programme Director – Air Quality, World Resources Institute (WRI)

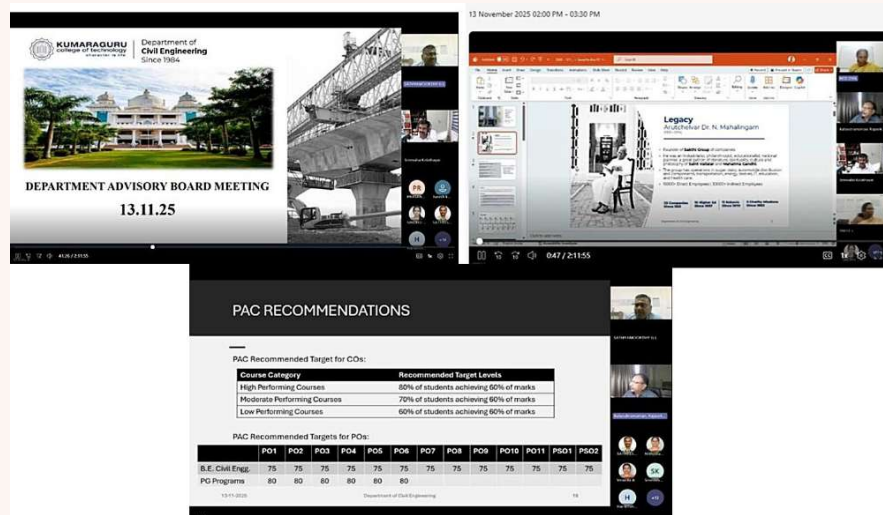
COORDINATED BY

Dr. A. Gandhimathi, Dr. S. Rajalakshmi, Dr. S. Anita

ADVISORY BOARD

Department Advisory Board Shapes the Road Ahead

Experts from Singapore, Calicut, VIT and industry reviewed the UG and PG programmes under Regulation 2024.



PARTICIPATION

37

participants
including 3 external faculty

WHEN
13 November 2025
WHERE
KCT

ABOUT THE PROGRAMME

An academic programme stays relevant only if it is reviewed by people who see the discipline from outside the classroom. The Department Advisory Board meeting brought academics and industry professionals together with the Department's faculty to review the Undergraduate and Postgraduate programmes under Regulation 2024 and to align them with current industry and research trends.

WHAT HAPPENED

Board members joined from the National University of Singapore, NIT Calicut, VIT, KBR Chennai, ARCADIS US and another National Institute of Technology. The agenda covered the finalisation of the Department Vision and Mission, a review of Programme Educational Objectives, Programme Outcomes and Course Outcomes with their attainment thresholds, curriculum revision based on feedback, proposals for new UG and PG programmes and courses, and updates on industry collaboration, research initiatives and placement statistics.

HOW IT WAS RECEIVED

Participants described the meeting as "Good", and the expert panel's inputs now feed directly into curriculum planning.

KEY OUTCOMES

- Department Vision and Mission finalised
- PEOs, POs and COs and their attainment thresholds reviewed
- Curriculum revision and feedback-based improvements discussed
- New programme and course proposals (UG/PG) examined
- Industry collaboration and research directions mapped

ADVISORY BOARD EXPERTS

Dr. Rajasekhar Balasubramaniam (NUS); Dr. M. Harikrishna (NIT Calicut); Dr. R. Prasanna Venkatesan (VIT); Mr. Suresh Kumar (KBR, Chennai); Mr. Prithviraj (ARCADIS US Inc.); Dr. Sreevalsa Kolathayar (NIT)

COORDINATED BY

Dr. S. Anita, G. L. Sathyamoorthy

WHY IT MATTERS

External advice keeps course content honest. It is the mechanism through which what industry needs today becomes what students study tomorrow.

Three Agreements in Five Weeks

Bentley Systems India, Fluidyn Consultancy and Adani Cement, September–October 2025

19 SEP 2025

**Bentley Systems
India**

22 SEP 2025

Fluidyn Consultancy

14 OCT 2025

**Adani Cement ·
FutureX**

An academic department is only as connected as its agreements. In the space of five weeks, the Department's partnerships widened to include a global infrastructure-software company, an environmental-modelling consultancy and one of India's largest cement producers. Each agreement is described in detail in the Partnerships section; the table below summarises what each one gives students and faculty.

What each agreement enables

Bentley Systems India Pvt. Ltd.	19 Sep 2025	Education Hub access; MicroStation, OpenRoads and OpenFlows software resources; support for a Centre of Excellence in infrastructure innovation; industry-led training.
Fluidyn Consultancy Pvt. Ltd.	22 Sep 2025	Hands-on training in Fluidyn software for environmental modelling and fluid-dynamics simulation; industrial application modules for environmental engineering teaching.
Adani Cement (Ambuja Cements Ltd) · FutureX	14 Oct 2025	Five-year institutional partnership: priority access to internships and leadership events, and collaborative R&D with Adani Cement technical experts.

Why it matters

Software access, training and internships are what convert a syllabus into employability. The Bentley agreement puts industry-standard infrastructure tools within every student's reach, the Fluidyn agreement introduces air-quality and fluid-dynamics modelling to environmental engineering, and the Adani Cement partnership opens a five-year route to internships, leadership events and collaborative research.

The first event under the Bentley MoU, an introduction to the Education Hub, took place on 7 January 2026 and is reported in the next issue.

Industry Co-Teaching & Guest Lectures

The classroom, widened

Geologists, highway engineers, environmental regulators, structural designers and quality managers came into the classroom this term through guest lectures and co-teaching, each matched to a course in the syllabus.

I N T H I S S E C T I O N

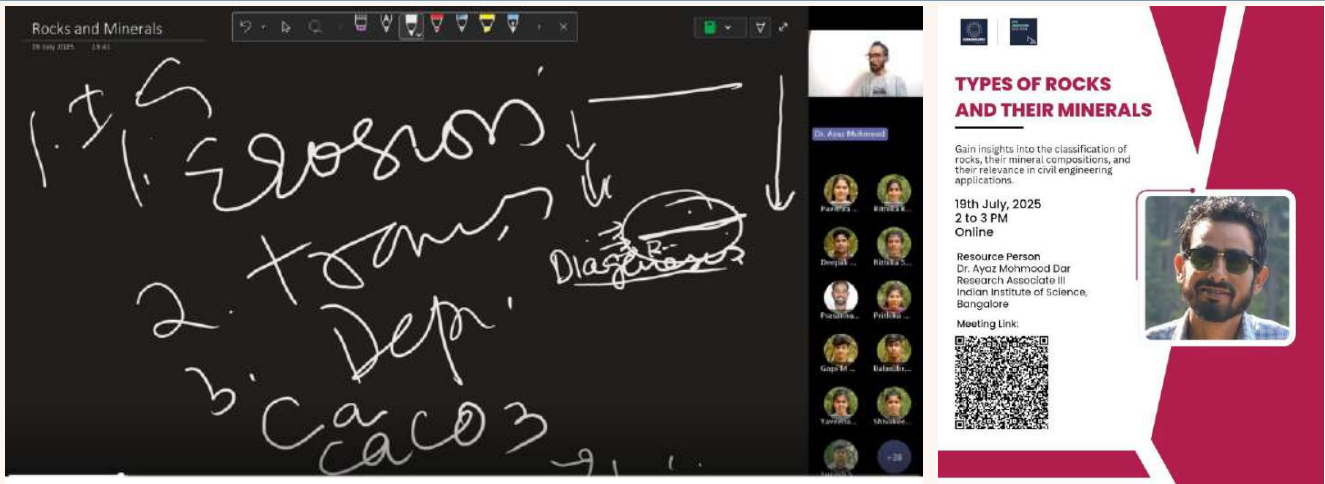
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6 Oct 2025	Inside the Triaxial Test	18
9 Oct 2025	Advanced Solid Mechanics, Seen Through.....	19
10 Oct 2025	Biomedical Waste.....	20
13 Oct 2025	Sewage Treatment	21
16 Oct 2025	Estimation, Costing and BOQ	22
16 Oct 2025	Highway Components and Design.....	23
17 Oct 2025	Safety Management in Infrastructure Projects	24
5 Dec 2025	Xenobiotics: How Chemicals and Microbes... ..	25
18 Sep 2025	Career Advancement Programme	26
22 Oct 2025	Earthquake Resistant Structures.....	26
23 Oct 2025	Total Quality Management	26



GUEST LECTURE

Rocks, Minerals and the Making of Soil

A geology expert from IISc explained where soil comes from, and why every geotechnical engineer should know.



WHEN

19 July 2025

WHERE

Online seminar, KCT

PARTICIPATION

62 participants

ABOUT THE PROGRAMME

Soil behaviour cannot be understood without knowing the rocks from which soils are formed. For the Soil Mechanics course (U18CEI5202), the Department arranged an online guest lecture by a geology expert to introduce the origin, types and minerals of rocks as a prerequisite to the subject.

WHAT HAPPENED

Dr. Ayaz Mohmood Dar, a Research Associate at the Indian Institute of Science, Bengaluru, whose interests span remote sensing, GIS and geophysics in earth, environmental and engineering studies, delivered the session online. He covered rock formation and the classification of igneous, sedimentary and metamorphic rocks, then moved on to the identification of their key minerals, repeatedly linking geological concepts to civil engineering applications.

HOW IT WAS RECEIVED

The lecture was well received: participants felt it bridged the gap between theoretical geology and practical civil engineering.

KEY OUTCOMES

- Understanding of rock formation and mineralogy as a foundation for soil mechanics
- Ability to classify igneous, sedimentary and metamorphic rocks
- Awareness of how mineral composition influences soil properties and behaviour
- Exposure to how geoscience research supports engineering practice

RESOURCE PERSON

Dr. Ayaz Mohmood Dar, Research Associate III, Indian Institute of Science, Bengaluru

COORDINATED BY

Prasanna Venkatesh R, Mr. K. Sathiyathan

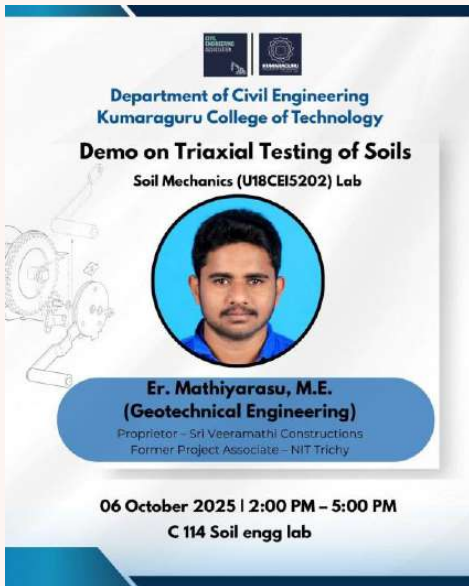
WHY IT MATTERS

A soil's strength, permeability and compressibility begin with its parent rock and minerals, so this session laid the groundwork for the semester's soil mechanics content.

LIVE DEMONSTRATION

Inside the Triaxial Test: Soil Strength Made Visible

Students watched a full triaxial test unfold in the Soil Engineering Laboratory, from sample preparation to shear failure.



PARTICIPATION

134

participants

131 students, 3 faculty

WHEN

6 October 2025 · 2:00 – 5:00 pm

WHERE

Soil Engineering Laboratory (C114), C Block, KCT

ABOUT THE PROGRAMME

The triaxial test is among the most versatile ways to find the shear strength of soil under controlled drainage conditions. The Department organised a practical demonstration so that students of the embedded Soil Mechanics course could connect classroom theory with a real laboratory procedure, and so that geotechnical faculty and technical staff could revisit the methodology and make effective use of the triaxial setup.

WHAT HAPPENED

Er. S. Mathiyarasu, an expert in soil-testing equipment, guided the students in five batches through the complete procedure: the layout of the equipment, preparation of the soil specimen, drainage control, the consolidation stage and finally the shear stage. Each batch saw the specimen loaded and observed how drainage conditions change the test outcome.

HOW IT WAS RECEIVED

Students said the live demonstration helped them understand the concepts taught in soil mechanics far more clearly, and found seeing the actual test procedure highly useful.

KEY OUTCOMES

- Clear understanding of how triaxial tests are set up and conducted
- Insight into shear strength behaviour under drained and undrained conditions
- Familiarity with sample preparation, consolidation and shearing stages
- Renewed confidence among faculty and staff in using the laboratory's triaxial setup

RESOURCE PERSON

Er. S. Mathiyarasu, Proprietor, Sri Veera Mathi Constructions (formerly of the Geotechnical Laboratory, NIT Tiruchirappalli)

COORDINATED BY

Prasanna Venkatesh R, Mr. K. Sathiyathan

WHY IT MATTERS

Shear strength governs foundation design, slope stability and earth-retaining structures. Seeing the test done, rather than reading about it, makes those design rules stick.

INDUSTRY SEMINAR

Advanced Solid Mechanics, Seen Through Industry Eyes

From theory to the site: an industry practitioner showed why solid mechanics sits at the heart of every structure.



Coimbatore, Tamil Nadu, India
Aithipalayam Road, Saravanampatti, Coimbatore, Tamil Nadu
641035, India
Lat: 11.077231, Long: 76.986565
Thursday, 09/10/2025, 14:46 GMT+05:30
Note: Captured by GPS Map Camera



Kumaraguru College of Technology
An Autonomous Institution Approved by AICTE
Affiliated to Anna University, Chennai.
Kuniamuthur, Coimbatore - 641008



Department Of Civil Engineering
(Accredited by NBA)

Seminar on

Advanced Solid Mechanics

Gain insights about the advanced concepts of solid mechanics and its applications in real-world scenarios

Er. P. Senthilkumar,
Proprietor - Trilochana Associates



Date: 05 Oct 2025
Time : 2.30 PM
Venue: C Block Seminar Hall

WHEN
9 October 2025

WHERE
C Block, KCT

PARTICIPATION
140 participants (130 students, 10 faculty)

ABOUT THE PROGRAMME

Solid mechanics is the language in which structural behaviour is described, yet students often meet it only as equations. The seminar was designed to improve the technical capacity of students by discussing how the subject is applied in the real world.

WHAT HAPPENED

The session, attended by 130 students and 10 faculty members, moved from fundamental ideas to advanced concepts through interactive discussion. The industry speaker presented real-world engineering applications and worked through case studies and industry-oriented examples drawn from structural and mechanical engineering problems, demonstrating the practical relevance of stress, strain and deformation.

HOW IT WAS RECEIVED

Feedback recorded for the seminar was "Good".

KEY OUTCOMES

- Stronger grasp of fundamental and advanced concepts in solid mechanics
- Appreciation of practical applications through case studies
- Improved analytical skills for structural and mechanical problems
- Motivation to link coursework with professional practice

RESOURCE PERSON

Er. P. Senthilkumar, Proprietor, Trilochana Associates

COORDINATED BY

Vighnesh R, Selvan V

WHY IT MATTERS

When students see a familiar formula decide whether a beam holds or fails on a live project, the subject stops being abstract.

GUEST LECTURE

Biomedical Waste: Treatment, Rules and Real Cases

A Tamil Nadu Pollution Control Board engineer walked ME Environmental Engineering students through the biomedical waste chain.

PARTICIPATION

13

participants

11 students, 2 faculty

WHEN

10 October 2025

WHERE

Online (Microsoft Teams)

Students called the session highly informative and relevant to current environmental management challenges, and appreciated the practical case studies and the clarity on regulations.

ABOUT THE PROGRAMME

Biomedical waste is one of the most hazardous categories that environmental engineers manage. The lecture supported the ME Environmental Engineering course on Solid and Hazardous Waste Management and aimed to give students an understanding of biomedical waste categories, treatment technologies and disposal methods, along with the regulations and compliance requirements that govern them.

WHAT HAPPENED

Dr. Devahi, an environmental engineer with exposure to academia, research and industry, began with the sources and classification of biomedical waste. She then explained treatment methods including autoclaving, incineration, chemical disinfection and secured landfilling. Real-world case studies illustrated the difficulties in segregation, handling and regulatory compliance, and students interacted actively through questions on waste minimisation, environmental impacts and monitoring mechanisms.

WHY IT MATTERS

A regulator's viewpoint shows students what compliance looks like on the ground, not only on paper.

KEY OUTCOMES

- Knowledge of biomedical waste categories, treatment and disposal methods
- Understanding of regulations and lessons from real case studies
- Awareness of the role of environmental engineers in safe, sustainable waste management

RESOURCE PERSON

Dr. Devahi, Assistant Engineer, Tamil Nadu Pollution Control Board

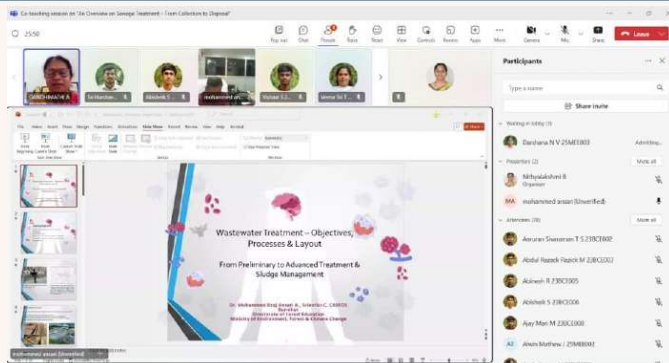
COORDINATED BY

Prasanna Venkatesh R, G. L. Sathyamoorthy

CO-TEACHING

Sewage Treatment: From Collection to Disposal

A scientist from the Ministry of Environment, Forest and Climate Change co-taught the full journey of wastewater.



Co-teaching session on An Overview on Sewage Treatment – From Collection to Disposal

Dr. Mohammed Siraj Ansari A.
Scientist-C, Central Academy for State Forest Service (CASFS), Burnihat, Coimbatore, Government of India

13.10.2025
10.45 AM TO 12.45 PM

Dr. Mohammed Siraj Ansari holds a Ph.D. in Civil Engineering from Anna University, specializing in groundwater quality assessment and environmental systems. With prior experience as an Assistant Professor at Coimbatore Institute of Technology and as a Technical Officer in the Central Public Health & Environmental Engineering Organisation (CPHEEO), Ministry of Housing and Urban Affairs, he brings over a decade of expertise in teaching, research, and environmental project appraisal. At CASFS, he serves as Course Director for training programs for forest officers, in addition to roles as Estate Officer, CPIO, and Nodal Officer for institutional digital platforms and governance initiatives. His research interests include water and wastewater management, pollution control, and environmental modelling, with 8 journal publications and 18 conference contributions.

FACULTY COORDINATORS
Dr. B. NITHYALAKSHMI, AP II
& Dr. A. GANDHIMATHI, ASP
DEPARTMENT OF CIVIL ENGINEERING

HYBRID MODE
MEETING LINK - <https://jupyter.inia/Suraj33>

WHEN
13 October 2025

WHERE
KCT online webinar

PARTICIPATION
135 participants (130 students, 4 faculty)

ABOUT THE PROGRAMME

This co-teaching session, delivered to fifth-semester Environmental Engineering students, set out to connect theoretical concepts with practical wastewater management: the function and importance of each treatment stage, the effluent discharge standards and regulatory requirements that apply, and emerging trends in sustainable sewage and sludge disposal.

WHAT HAPPENED

Presented online by a Scientist-C from the Government of India's Ministry of Environment, Forest and Climate Change, the session traced sewage from collection and conveyance through the treatment stages to effluent and sludge disposal. Theory was integrated with practical examples, case scenarios and government and industry practices.

KEY OUTCOMES

- Understanding of the function of each treatment stage in protecting public health and the environment
- Ability to relate treated sewage and sludge disposal methods to sustainable wastewater management
- Awareness of recent trends in waste management and effluent discharge standards

RESOURCE PERSON

Dr. Mohammed Siraj Ansari A., Scientist-C, Central Academy for State Forest Service (CASFS), Burnihat, MoEF&CC, Government of India

COORDINATED BY

Dr. B. Nithyalakshmi, Dr. A. Gandhimathi

HOW IT WAS RECEIVED

Students found the session useful, relevant and effective for understanding the practical applications of environmental engineering; most respondents reported being satisfied.

WHY IT MATTERS

Wastewater treatment is where engineering meets public health. Hearing from a national-level scientist shows students how the field is regulated and where it is heading.

CO-TEACHING

Estimation, Costing and BOQ: Highway Projects in Practice

Live project documents from the National Highways Authority of India turned quantity take-off into a hands-on lesson.



PARTICIPATION

75

students

WHEN

16 October 2025

WHERE

KCT

ABOUT THE PROGRAMME

Estimating and costing are the skills that connect a design to a budget. This session exposed students to detailed estimation, Bill of Quantities (BOQ) preparation, rate analysis and quantity take-off procedures for highway projects, taught through industry practice rather than textbook examples.

WHAT HAPPENED

Mr. Richard Samuel, Project Engineer at NHAI, guided 75 students through the preparation of a detailed estimate, the classification of items, rate analysis and BOQ take-off using live highway project documents. Students worked through how items are measured and priced in accordance with standard specifications.

KEY OUTCOMES

- Methodology for preparing detailed estimates and BOQs for highway projects
- Classification of items, rate analysis and quantity take-off as per standard specifications
- Industry-oriented estimation and costing skills for budgeting and project planning

RESOURCE PERSON

Mr. Richard Samuel, Project Engineer, National Highways Authority of India (NHAI)

COORDINATED BY

Dr. U. Sindhu Vaardini, Mr. Aswin Bharath A

HOW IT WAS RECEIVED

Students found the rate analysis walkthrough and the live BOQ examples highly useful; several requested a follow-up hands-on session on estimation software.

WHY IT MATTERS

Every construction contract is built on a BOQ. Students who can prepare one are immediately useful on a project team.

CO-TEACHING

Highway Components and Design: Insights from the Field

The syllabus met live national-highway practice in a second session by the NHAI project engineer.



PARTICIPATION

75

students

WHEN

16 October 2025

WHERE

KCT

ABOUT THE PROGRAMME

Alongside the session on estimation, students were introduced to the anatomy of a highway: its structural and functional components, design principles, geometric parameters and alignment considerations. The aim was to familiarise them with what makes modern highways safe, durable and efficient.

WHAT HAPPENED

Mr. Richard Samuel addressed 75 students on highway components and design, linking classroom content on geometric design and alignment to live national-highway project practice. He explained how design choices reflect safety, durability and efficiency requirements on operating highways.

KEY OUTCOMES

- Understanding of key structural and functional components of highways and their role in performance
- Knowledge of design principles, geometric parameters and alignment considerations
- Ability to apply industry-oriented design concepts for safer, more durable infrastructure

RESOURCE PERSON

Mr. Richard Samuel, Project Engineer, National Highways Authority of India (NHAI)

COORDINATED BY

Dr. U. Sindhu Vaardini, Mr. Aswin Bharath A

HOW IT WAS RECEIVED

Students rated the session highly, appreciating the real project examples and practical design insights; many asked for more industry sessions on pavement design and construction.

WHY IT MATTERS

Highway engineering is a major employer of civil graduates. Hearing directly from a serving project engineer clarifies what the work involves.

CO-TEACHING

Safety Management in Infrastructure Projects

A practical industry perspective on keeping people safe during construction and maintenance.

PARTICIPATION

60

students

WHEN

17 October 2025

WHERE

KCT

The session was part of the October series of industry co-teaching sessions rated highly by students for real project examples.

ABOUT THE PROGRAMME

Safety is not an add-on to construction; it is designed and managed into every stage. This session brought an industry manager into the classroom to help students understand safety measures during the construction and maintenance phases of infrastructure projects.

WHAT HAPPENED

Mr. B. Ariharan, Executive Manager at Modish 3D Designers, shared industry practice with 60 students, highlighting the key components and access requirements needed for safe maintenance of infrastructure systems, and the standards and technologies now used to enhance safety in infrastructure development.

WHY IT MATTERS

Site safety is a legal duty and an ethical one. Introducing it early shapes how graduates behave on their first project.

KEY OUTCOMES

- Importance of safety measures in the construction and maintenance phases
- Key components and access-maintenance requirements essential to safety and functionality
- Insight into industry standards and technologies used to enhance safety

RESOURCE PERSON

Mr. B. Ariharan, Executive Manager, Modish 3D Designers

COORDINATED BY

Dr. U. Sindhu Vaardini, Mr. Aswin Bharath A

GUEST LECTURE • 1C1C

Xenobiotics: How Chemicals and Microbes Shape Ecosystems

An eco-toxicology scientist introduced students to the pathways and persistence of pollutants in the environment.



PARTICIPATION

35

participants

30 students, 5 faculty

WHEN

5 December 2025

WHERE

ECE Conference Room, C Block, KCT

ABOUT THE PROGRAMME

Delivered under the 1C1C (One Credit One Course) category, this lecture provided field-expert delivery on top of the existing curriculum. Its subject, xenobiotics, refers to chemical compounds foreign to living systems, whose behaviour in the environment is central to ecological and human health.

WHAT HAPPENED

Dr. G. Velmurugan, an expert on real-time case studies in eco-toxicology, spoke on the complex interactions between chemicals and microbes across diverse environments and their implications for human and ecosystem health. Students examined case studies and ecotoxicological assessment frameworks, and interacted closely with the speaker.

HOW IT WAS RECEIVED

The students' interaction with the guest was described as good, with lively questions throughout.

KEY OUTCOMES

- Exposure to xenobiotics, their environmental persistence and pathways of ecological impact
- Ability to analyse real-world case studies
- Skills to evaluate ecotoxicological assessment frameworks and propose sustainable treatment approaches

RESOURCE PERSON

Dr. G. Velmurugan, Scientist,
Chemomicrobiomics Laboratory,
Department of Biochemistry & Microbiology

COORDINATED BY

Dr. A. Geethakarthis, Padhmanand Sudhakar

WHY IT MATTERS

Emerging contaminants challenge conventional treatment. Understanding them is the first step towards designing better water and waste systems.

CAREER GUIDANCE

Career Advancement Programme: A Roadmap for Competitive Exams

18 September 2025 | C Block, KCT

How civil engineers can prepare for competitive and government examinations.

Titled "Competitive Exams for Civil Engineers: A Roadmap to Success", this guest lecture gave final-year and pre-final-year students a structured way to think about competitive examinations. The speaker set out preparation strategies, the important topics civil engineering candidates should focus on, and practical time-management tips, and described the range of government career opportunities that open up to civil engineering graduates. The programme was aimed at helping students decide early whether to pursue public-sector roles alongside, or instead of, private-sector careers.

OUTCOMES Preparation strategies for competitive exams ▪ Important topics and time-management tips ▪ Awareness of government career opportunities

RESOURCE PERSON Dr. A. Dinesh, Proprietor, Dr. A.D Academy of Excellence **PARTICIPATION** About 107 expected (100 students)

CO-TEACHING

Earthquake Resistant Structures: An Alumnus Returns to Teach

22 October 2025 | KCT

Industry expert session for the course U18CEE0012 Earthquake Engineering.

A structural engineer from Coimbatore-based Mithran Structures, and an alumnus of KCT, delivered a module of the Earthquake Engineering course on earthquake resistant structures. The session covered the principles of design of RC structures for seismic loads, the seismic behaviour of structures, the description of structural response under dynamic loading and case studies. Bringing back an alumnus gave students a practical view of how the concepts of the course are applied in a structural design office.

OUTCOMES Principles of seismic design of RC structures ▪ Seismic behaviour and dynamic response ▪ Case studies from practice

RESOURCE PERSON Er. S. Arnesh, Structural Engineer, Mithran Structures (KCT alumnus) **PARTICIPATION** About 53 expected (50 students, 3 faculty)

CO-TEACHING

Total Quality Management: ISO Systems in Practice

23 October 2025 | KCT

An industry expert session for course U18MBT5000 Total Quality Management.

Students of the Total Quality Management course were introduced to the industrial practice of quality systems and standards. The session covered the introduction to ISO 9000, its clauses, ISO certification, supplier quality issues, ISO 9001 requirements, quality auditing and quality documentation. By bringing in a practising quality manager, the Department mapped ISO quality-system content directly to the syllabus and showed students how certification and auditing work in an organisation.

OUTCOMES ISO 9000 clauses, certification and auditing ▪ Supplier quality and documentation ▪ ISO 9001 requirements in practice

RESOURCE PERSON Ms. V. Sri Santhya, Joint Director & Quality Manager, Nature Science Foundation, Coimbatore

PARTICIPATION About 120 students

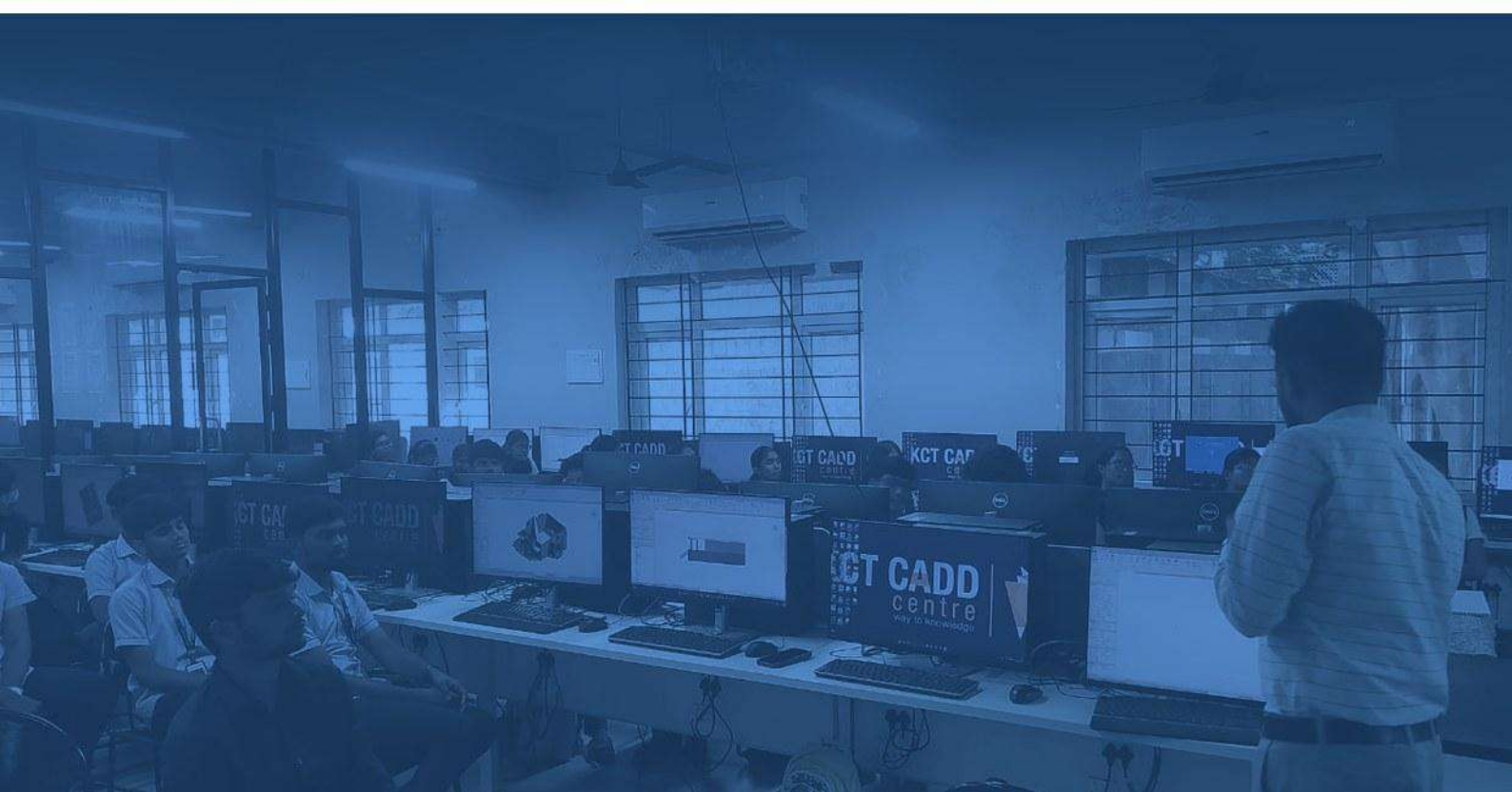
Workshops & Hands-on Training

Skills you can use on Monday

Bridge design in MIDAS, structural analysis in STAAD.Pro, drawing production in Revit and a workshop on research method: hands-on training that turns software and technique into working skill.

IN THIS SECTION

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FACULTY DEVELOPMENT PROGRAMME

MIDAS Bridge: Two Days of Hands-on Bridge Design

Faculty, research scholars and PG students from KCT and other colleges modelled and analysed bridges in MIDAS Civil.



PARTICIPATION

60

participants

30 internal, 30 external faculty

WHEN

18–19 July 2025

WHERE

Civil PG Advanced Computing Lab, C Block, KCT

ABOUT THE PROGRAMME

Bridges are among the most demanding structures a civil engineer designs, and specialised software is now indispensable for analysing them. This two-day faculty development programme was organised to equip participants with hands-on experience in modelling and analysing structural systems using MIDAS Civil, covering both basic and advanced bridge design elements.

WHAT HAPPENED

Over two days, trainers from MIDAS took participants through the modelling and analysis of 2D beams, portal frames, 3D frames, box culverts and PSC I-girder bridges. The audience was deliberately broad: external faculty, external research scholars, internal faculty, internal research scholars and internal PG students trained side by side, and MIDAS's Regional Manager was on hand to interact with participants about the software and its applications.

KEY OUTCOMES

- Hands-on skill in modelling 2D beams, portal frames, 3D frames and box culverts
- Design and analysis of a PSC I-girder bridge in MIDAS Civil
- A platform for faculty, researchers and industry professionals to update their skills
- Direct interaction with the software developer's regional team
- Faculty able to use MIDAS Bridge software for design of bridges

RESOURCE PERSON

Mr. Rajesh Kumar, Managing Director, Tech Apps Consulting (MIDAS)

COORDINATED BY

Satheesh Kumar, Dr. P. A. Prabakaran, Mr. K. Sathiyathan

HOW IT WAS RECEIVED

Organisers recorded one practical lesson for free-to-attend events like this: a minimum deposit should be collected from every registered participant to ensure attendance.

WHY IT MATTERS

Faculty who can run bridge models themselves bring current practice into their design classes, and research scholars gain a tool they can use in their own work.

RESEARCH WORKSHOP

Research Efficiency: Smarter Tools for Literature Review and Data Analysis

A two-day workshop showed PG students and research scholars how to read, organise and analyse the literature in less time.



PARTICIPATION

61

PG students and research scholars

WHEN

16–17 September 2025

WHERE

Hall C124, KCT

ABOUT THE PROGRAMME

A good research paper begins with a good literature review, and a good literature review is a matter of method as much as effort. This workshop set out to enhance research efficiency among postgraduate students and research scholars by introducing systematic approaches and digital tools for literature review, reference management, data analysis and interpretation.

WHAT HAPPENED

Sixty-one participants worked through the systematic approach to reviewing literature, then moved to digital tools for reference management and for organising data. Practical sessions showed how research data are analysed and interpreted, and interactive discussions addressed the day-to-day challenges researchers face and how efficiency can be improved.

HOW IT WAS RECEIVED

Participants described the sessions as informative, well structured and highly relevant to their research needs, and appreciated the clear explanations and practical insights into systematic review, reference management and data analysis.

KEY OUTCOMES

- Importance of a systematic approach in conducting literature reviews
- Digital tools and software for reference management and data organisation
- Techniques for analysing and interpreting research data effectively
- Ability to produce high-quality research outputs in shorter timeframes

RESOURCE PERSON

Mr. Aswin Bharath A, Assistant Professor,
Department of Civil Engineering, KCT

COORDINATED BY

Manju R, Mr. K. Sathiyathan

WHY IT MATTERS

Postgraduate research succeeds or stalls on habits formed early. Building sound review and data-handling routines at this stage pays off through every later stage of a thesis.

INDUSTRY WORKSHOP

Revit in Practice: From Detailing to the Layout Sheet

Second-year students learned how a Revit model becomes a clean, submission-ready drawing set.



PARTICIPATION

75

second-year students

WHEN

22 October 2025

WHERE

KCT

ABOUT THE PROGRAMME

Modelling in BIM is only half the job; the drawings that go to clients, contractors and approving authorities are what the profession judges. This workshop was planned to bridge academic training and industry practice in Revit by giving students exposure to detailing, layout-sheet creation, sheet management and presentation-ready drawing workflows.

WHAT HAPPENED

Mr. Sukan Karthick C, a Design Engineer at Modish 3D Designers, led the second-year Civil students through detailing in Revit for architectural and structural drawings, view management, sheet composition and the industry-standard way of fitting drawings onto sheets for professional presentation.

HOW IT WAS RECEIVED

Students rated the hands-on sheet-composition demonstration highly useful, and several requested a follow-up session on Revit families and advanced annotation workflows.

KEY OUTCOMES

- Process of detailing in Revit for architectural and structural drawings
- Creating layout sheets and managing multiple views in a project
- Industry-standard practice for fitting drawings onto sheets
- Clearer, organised and submission-ready documentation
- Link between lab exercises and real project deliverables in BIM workflows

RESOURCE PERSON

Mr. Sukan Karthick C, Design Engineer, Modish 3D Designers

COORDINATED BY

Dr. U. Sindhu Vaardini, Mr. Aswin Bharath A

WHY IT MATTERS

Employers hire people who can produce drawings that others can build from. Documentation skill is often what separates a modeller from a design engineer.

HANDS-ON TRAINING

STAAD.Pro: Hand Calculation Meets the Software

One hundred and thirty students compared manual structural analysis with software results, side by side.



PARTICIPATION

132

participants

130 students, 2 faculty

WHEN

24 October 2025

WHERE

CADD Lab, D Block, KCT

ABOUT THE PROGRAMME

Structural analysis is taught through hand calculation, yet practice runs on software. The training was designed to give participants hands-on experience in STAAD.Pro and, crucially, to compare manual calculation methods with software-based approaches, so that students learn to trust the software for the right reasons and to question it when needed.

WHAT HAPPENED

The resource person, a managing director from a Coimbatore engineering and construction firm, demonstrated the STAAD.Pro workflow and modelling procedures, and built a real-time structural model with load cases. A comparative explanation of manual and software-based analysis followed, and a hands-on practice session let students try the workflow themselves.

HOW IT WAS RECEIVED

Participants appreciated the practical, industry-oriented approach and commended the clear explanations and effective demonstration of both methods; hands-on practice built confidence in using modern analysis tools.

KEY OUTCOMES

- Fundamental concepts of structural analysis applied to real engineering problems
- Practical experience in modelling, load application and analysis in STAAD.Pro
- Ability to interpret and validate software results
- Comparison of manual and software results for accuracy and efficiency
- A bridge between theoretical knowledge and practical implementation

RESOURCE PERSON

Er. V. Senthil Kumar, Managing Director, Shreeisti Contriver Pvt. Ltd., Coimbatore

COORDINATED BY

Manju R, Dr. J. Premalatha

WHY IT MATTERS

A structural engineer who can check software output by hand is a safer engineer. This session taught both halves of that skill together.

BOOTCAMP

Anna University & Autodesk Two-Day Student Bootcamp

19–20 September 2025 | CAAD Lab, D Block, KCT

Revit training combined with mentoring for Smart India Hackathon 2025 submissions.

This two-day bootcamp, held with Anna University and Autodesk, gave students hands-on training on Autodesk Revit at the CAAD Lab. Beyond software skills, the bootcamp was designed to mentor students towards Smart India Hackathon 2025 idea submissions, using four problem statements published by Autodesk. Trainers from USAM CADSoft India guided participants through Revit tools while helping teams shape their concepts into structured, submission-ready proposals.

OUTCOMES Hands-on introduction to Autodesk Revit ▪ Mentoring for SIH 2025 idea submissions ▪ Exposure to four Autodesk problem statements

RESOURCE PERSONS Mr. J. Vimal Devaprabhu (Manager – Training & Support) and Mr. Rahul Pasanth (Application Engineer), USAM CADSoft India Pvt. Ltd. **PARTICIPATION** About 60 students

FACULTY DEVELOPMENT PROGRAMME

Autodesk Revit Fundamentals for Faculty

17–19 November 2025 | CADD Lab, KCT

A three-day, hands-on introduction to BIM for teaching staff.

This hands-on faculty development programme gave teachers a strong introduction to Autodesk Revit and its core BIM functionalities. Participants practised creating, modifying and managing architectural and structural models, so that BIM concepts taught in the classroom rest on the teacher's own hands-on experience with the tool.

OUTCOMES A strong introduction to Revit and core BIM functions ▪ Practical skill in creating, modifying and managing models ▪ Faculty ready to support BIM-based teaching

RESOURCE PERSON Mr. J. Vimal Devaprabhu, Manager – Training & Support, USAM CADSoft India Pvt. Ltd. **PARTICIPATION** 5 faculty expected

HANDS-ON TRAINING

Analytical Instruments Up Close: HPLC, AAS and UV-Vis

27 November 2025 | Analytical Instrumentation Laboratory, C-113A, KCT

Service engineers trained PG students on the instruments of the Analytical Instrumentation Laboratory.

Technical experts in HPLC, AAS and UV-Vis spectrophotometer servicing gave PG students expertised, hands-on learning on sophisticated analytical instrumentation. Working with the people who install and service these instruments gave students a view of operation, calibration and care that a textbook seldom offers, and prepared them for the laboratory work that environmental research demands.

OUTCOMES Hands-on exposure to AAS, HPLC and double-beam UV-Vis instruments ▪ Learning directly from industry professionals ▪ Confidence for analytical laboratory work

RESOURCE PERSONS Mr. Anandaraj and Mr. Mageshwaran, Senior Engineers, Instrument Care Pvt. Ltd., Chennai **PARTICIPATION** About 17 expected (11 students, 6 faculty)

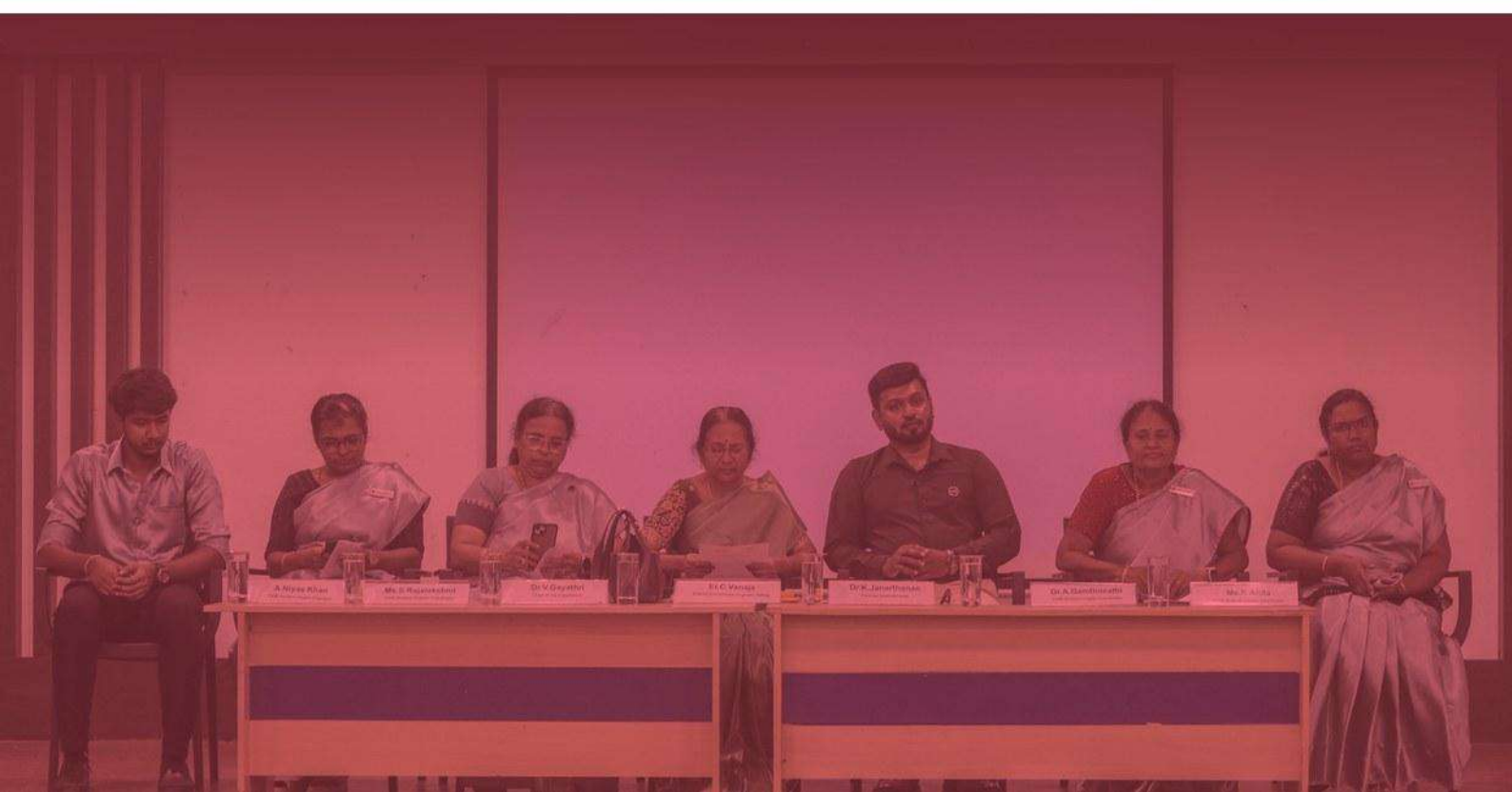
Student Life & Field Exposure

Chapters, contests and curiosity

Two professional chapters opened, a project expo drew 240 visitors, students photographed a greener Diwali, cleared plastic from a forest and toured a start-up summit. Student life at its most engaged.

I N T H I S S E C T I O N

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OUTREACH DRIVE

Clearing the Forest: A Plastic-Free Morning at Madukkarai

Students, faculty and forest-department staff picked up plastic litter from forest land, and carried a message home.



PARTICIPATION

28

volunteers

WHEN

19 July 2025

WHERE

Madukkarai forest area

ABOUT THE PROGRAMME

Plastic waste that reaches a forest does not stay where it lands: it harms wildlife, chokes soil and water and lasts for generations. The Eradicating Plastics in Forest Areas drive was organised to remove plastic waste from forest land, to promote environmental responsibility among students and to give participants a hands-on role in restoring a natural area.

WHAT HAPPENED

At Madukkarai, students, faculty and forest-department personnel worked together in a collective clean-up. Through active participation and teamwork the volunteers removed a significant amount of plastic litter from the local forest area, and the drive doubled as an awareness effort on the ill effects of improper disposal of plastic waste.

KEY OUTCOMES

- A significant amount of plastic litter cleared from forest land
- Awareness among the public on the ill effects of improper plastic disposal
- Environmental stewardship reinforced among students
- Working partnership with forest-department staff

WITH

Mr. Arun, Forest Ranger, Tamil Nadu Forest Department

COORDINATED BY

Mr. K. Sathiyathan

HOW IT WAS RECEIVED

Participants found the drive meaningful and impactful, took satisfaction in making a tangible difference, and many said they would join similar initiatives in future.

WHY IT MATTERS

For civil and environmental engineers, sustainability is a professional duty. A morning spent picking up plastic makes the scale of the waste problem concrete.

Constructing Careers: Paths Beyond the Obvious

An industry leader spoke to 120 students about the many futures that a civil engineering degree can open.



CONSTRUCTING CAREERS

Join us for an Awareness Programme on Career Opportunities in Civil Engineering! Explore diverse career paths, gain expert insights, and learn how your skills can shape the future of infrastructure and sustainability. Don't miss this chance to plan your career with confidence!

SPEAKER
Mr. SRIRAM RAMDASS
 Executive Director,
 Sri Ramkarthic Polymers,
 Coimbatore

26 August
 2 pm - 3 pm
 C-block Seminar hall

Event Coordinator
Mr.K.Sathiyathan
Dr.R.Manju

WHEN

26 August 2025 · 2:00 – 3:00 pm

WHERE

Seminar Hall, C Block, KCT

PARTICIPATION

130 participants (120 students, 10 faculty)

ABOUT THE PROGRAMME

Civil engineering leads to far more than site engineering. The Department, together with the Civil Engineering Association, organised the Constructing Careers awareness programme to help students understand the diverse career opportunities available to them beyond core engineering roles, and to plan their careers with clarity and confidence.

WHAT HAPPENED

The programme featured an interactive talk by an industry expert, followed by a question-and-answer session and a formal vote of thanks. Students used the Q&A to probe the speaker on career choices, industry expectations and how to prepare for them.

KEY OUTCOMES

- Clarity about the range of career options in civil engineering
- Awareness of collaboration opportunities with industry
- A practical, real-world perspective on how careers are built
- Motivation to plan career paths more purposefully

RESOURCE PERSON

Mr. Sri Ram Ramadass, Executive Director,
 Sri Ramkarthic Polymers

COORDINATED BY

Mr. K. Sathiyathan

HOW IT WAS RECEIVED

The response from student participants was overwhelmingly positive. They found the session highly informative and appreciated the practical perspective, and many said it broadened their understanding of career avenues.

WHY IT MATTERS

Students who see the options early can choose electives, internships and skills with purpose, instead of drifting into their final year.

FIELD EXPOSURE

PG Students at the Tamil Nadu Global Start-up Summit

A day at CODISSIA showed M.E. students how ideas become ventures.



WHEN

9 October 2025 • 11:00 am
– 4:30 pm

WHERE

CODISSIA Trade Fair Complex, Coimbatore

PARTICIPATION

First- and second-year M.E. students (Structural, Environmental, Construction Management)

ABOUT THE PROGRAMME

The Tamil Nadu Global Start-up Summit brought innovators, investors and government agencies under one roof. The Department took its postgraduate students to explore recent innovations and start-up technologies, to understand government initiatives that support entrepreneurs, to gain insights into global business collaborations and investment opportunities, and to learn about sustainable and environmentally responsible innovation.

WHAT HAPPENED

PG students of the M.E. Structural Engineering, Environmental Engineering and Construction Management programmes, from both years, toured the stalls between 11.00 am and 4.30 pm under the guidance of their faculty. The visit put engineering ideas in the context of business models, funding and policy support.

KEY OUTCOMES

- Exposure to recent innovations and start-up technologies
- Understanding of government initiatives that support entrepreneurs
- Insight into global business collaboration and investment
- Awareness of sustainable and environmentally responsible innovation

ACCOMPANYING FACULTY

Mr. K. Sathiyathan and Mr. Aswin Bharath A

COORDINATED BY

Dr. K. Ramadevi, Dr. B. Nithyalakshmi, Dr. U. Sindhu Vaardini

HOW IT WAS RECEIVED

For postgraduate researchers, the visit was a first look at how a research idea can travel from the laboratory to a marketable product.

WHY IT MATTERS

Many civil and environmental innovations, from construction technology to water treatment, are being built by start-ups. Students who see that ecosystem can imagine building their own.

STUDENT CHAPTER

The CIOB Student Chapter Opens at KCT

An inauguration, a new set of office bearers and a doorway to international professional development.



PARTICIPATION

242

participants

200 students, 40 faculty

WHEN

14 October 2025

WHERE

C Block, KCT

ABOUT THE PROGRAMME

The Chartered Institute of Building (CIOB) is an international professional body for construction management. The inauguration and orientation of the CIOB Student Chapter 2025 was held to install new office bearers, create awareness of the student chapter and its accreditation by CIOB, and to give students a guest lecture on entrepreneurship and environmental responsibility.

WHAT HAPPENED

More than two hundred students and forty faculty members attended. The chief guest, the founder of Gramathupaal, and the guest of honour from the Tamil Nadu Pollution Control Board addressed the gathering. The programme explained what the chapter offers, from student registrations to learning avenues and continuing professional development (CPD) opportunities.

HOW IT WAS RECEIVED

Participants rated the inaugural programme Good.

KEY OUTCOMES

- Installation of the new office bearers of the chapter
- New student registrations
- Awareness of chapter outcomes and benefits
- Learning avenues and CPD opportunities through CIOB

GUESTS

Dr. K. Janarthanan, Founder, Gramathupaal (Chief Guest); Er. C. Vanaja, District Environmental Engineer, Tamil Nadu Pollution Control Board (Guest of Honour)

COORDINATED BY

Dr. S. Anita, Dr. A. Gandhimathi, Dr. S. Rajalakshmi

WHY IT MATTERS

A student chapter connects classroom learning to a global professional network, and gives students a place to practise leadership before they graduate.

CREATIVE CONTEST

Freeze the Frame: A Pollution-Free Diwali Through the Lens

A photography contest asked students to capture what a sustainable festival looks like.



PARTICIPATION

50

recorded participants

9 entries received

WHEN

16–22 October 2025

WHERE

Online

ABOUT THE PROGRAMME

The Freeze the Frame photography contest invited students to capture and express the spirit of a sustainable, pollution-free Diwali. It aimed to promote eco-conscious festive celebrations and mindful traditions, and gave participants a creative platform to showcase their photography skills online.

WHAT HAPPENED

Held online from 17 to 22 October 2025, the contest combined creativity with environmental awareness. The Civil Engineering Association ran it with Studio KCT, and the winning entry earned a prize worth ₹1,500.

HOW IT WAS RECEIVED

Participants appreciated the unique and timely theme, found the online format convenient for submitting entries at their own pace, and asked for more creative, theme-based contests in future.

KEY OUTCOMES

- A pollution-free, sustainable Diwali mindset promoted among students
- A creative outlet for student photographers
- Eco-conscious festive practice made visible through images

ORGANISED BY

Civil Engineering Association in association with Studio KCT

COORDINATED BY

Mr. K. Sathiyathan, Civil Engineering Association with Studio KCT

WHY IT MATTERS

Sustainability is easier to remember when people see it. Photographs of a quieter, cleaner festival made the case in a way that slogans rarely do.

PROFESSIONAL SOCIETY

Indian Concrete Institute Students Chapter Inaugurated

Membership certificates were handed out as the Department opened another gateway to the concrete industry.

PARTICIPATION

≈50

expected

40 students, 10 faculty

WHEN

23 October 2025

WHERE

KCT

The event was planned for about fifty participants, forty students and ten faculty members.

ABOUT THE PROGRAMME

The Indian Concrete Institute (ICI) is a national professional society for those who work with concrete. The Department inaugurated the ICI Students Chapter at KCT and distributed student membership certificates, as a Professional Societal Activity to bring students closer to the profession they are preparing to join.

WHAT HAPPENED

The resource person, a proprietor and consultant from Coimbatore, spoke about the objectives of the Institute and the value of engaging with the concrete community. The programme closed with the distribution of student membership certificates, formally enrolling the first members of the chapter.

WHY IT MATTERS

Concrete is the most widely used construction material in the world. A chapter of the Institute gives students a channel to seminars, standards and practitioners.

KEY OUTCOMES

- Awareness of the objectives of the Indian Concrete Institute
- Enhanced industry–institute interaction
- Motivation for student participation in the society
- Knowledge dissemination among members
- Student membership certificates distributed

RESOURCE PERSON

Rtn. Er. Thilak Ranjith T., Proprietor & Consultant, TR Associates, Coimbatore

COORDINATED BY

Dr. K. Ramadevi

PROJECT EXPO

Hack-A-Bit 2025: Prototypes, Problem-solving and Pride

Students from embedded courses displayed working prototypes to peers, faculty and an industry expert.



PARTICIPATION

240

participants

200 students, 30 faculty, industry visitors

WHEN

28 October 2025

WHERE

F Block Ground Floor, KCT

ABOUT THE PROGRAMME

The Hack-A-Bit Design Competition 2025 Project Expo was organised to showcase prototypes and innovative projects developed through embedded courses, and to encourage design thinking, problem-solving and engineering innovation. It offered hands-on exposure to real-world design constraints and promoted teamwork, creativity and technology-driven solutions.

WHAT HAPPENED

On the ground floor of F Block, student teams displayed prototypes related to their embedded courses and demonstrated them to visitors. Interactive demonstrations gave viewers a hands-on understanding of technology, design and functionality, while teams discussed their solutions and received feedback from faculty and the industry expert.

KEY OUTCOMES

- Demonstration of core ideas and proof of technical viability
- Application of design thinking and engineering principles to complex challenges
- Deeper understanding of real-world constraints in project design
- Experiential learning and industry problem-solving

INDUSTRY EXPERT

Mr. Chenna Prasad, Managing Partner,
Hydrotech Engineering Solutions

COORDINATED BY

Dr. A. Gandhimathi, Dr. B. Nithyalakshmi

HOW IT WAS RECEIVED

Students appreciated the chance to demonstrate their projects and receive feedback, and found the event interactive, informative and useful for building innovation and teamwork skills.

WHY IT MATTERS

Building something that works, and explaining it to a visitor, teaches lessons that an examination cannot: what to simplify, what to test, and what to do when it does not work.

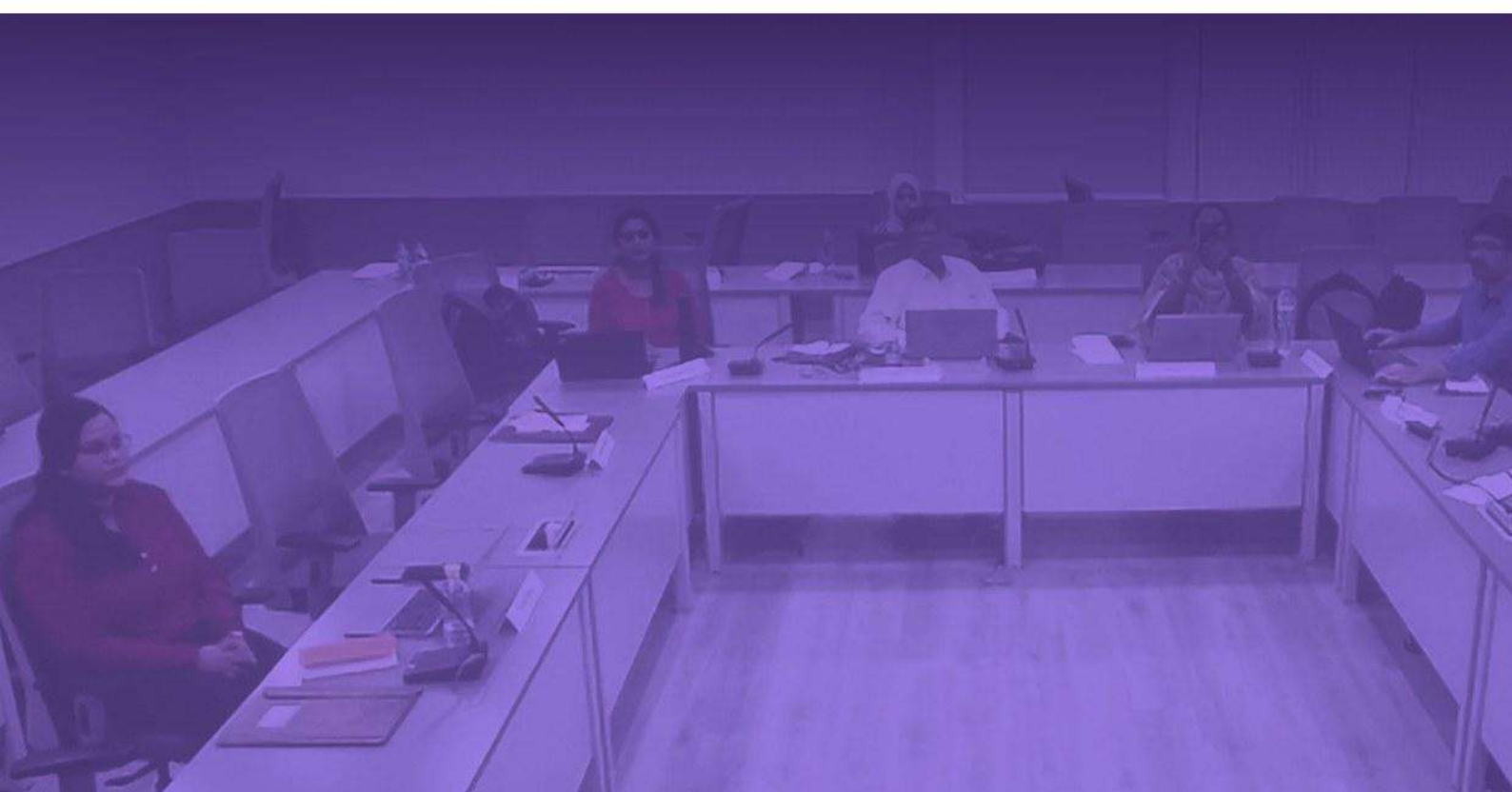
Faculty & Staff Development

Teachers who keep learning

NPTEL courses, FDPs, conferences in India and Brunei, trade fairs, a research-institute visit and an eleven-day industry immersion: how the faculty keep teaching current.

I N T H I S S E C T I O N

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CONCLAVE

Adani Cement FutureX: Building a Bridge Between Campus and Plant

A faculty member joined an industry–academia conclave in Ahmedabad that led to a five-year partnership.

PARTICIPATION

Faculty delegate

WHEN

26–27 September
2025

WHERE

Adani University Auditorium,
Ahmedabad, Gujarat

The conclave is the starting point of a partnership that the Department is now building on with student-facing programmes.

ABOUT THE PROGRAMME

FutureX was designed by Adani’s cement business as a living bridge between academia and industry. Its two-day programme brought together Smart Cement Labs, robotics and AI demonstrations, STEM-and-beyond learning, immersive plant visits, R&D collaborations, leadership sessions, a science quiz series and internship and placement opportunities.

WHAT HAPPENED

Dr. A. Geethakarathi, Professor in the Department, represented KCT at the conclave in Ahmedabad. The programme gave a close look at how a large cement producer works with academic institutions on research, skills and careers.

WHY IT MATTERS

Cement and concrete sit at the heart of civil engineering. A direct line to a leading producer keeps teaching, research and internships close to industry practice.

KEY OUTCOMES

- A five-year institutional partnership agreement between KCT and Adani Cement, signed on 14 October 2025
- Priority access for students to internships and leadership events
- A route to collaborative R&D between the Department and industry
- First-hand view of smart cement laboratories and plant practice

ORGANISER

Cement Business, Adani Group

COORDINATED BY

Dr. A. Geethakarathi (Professor)

INDUSTRY IMMERSION

Eleven Days in the Design Office: A Faculty Immersion

A faculty member spent two weeks inside a Coimbatore design studio to bring live practice back to the classroom.

PARTICIPATION

11

days
8 hours a day

WHEN

8–19 December 2025

WHERE

Modish 3D Designers, Coimbatore

The immersion led directly to a 30-hour, industry-delivered BIM training for second-year students in the following semester.

ABOUT THE PROGRAMME

Teaching is strongest when it is informed by current practice. The Faculty Industry Immersion Programme placed a member of the Department's faculty in a professional architectural and interior design office, with the aim of gaining practical exposure to design workflows and applying that understanding in teaching.

WHAT HAPPENED

From 8 to 19 December 2025, the faculty member worked through live design projects, BIM modelling, 3D visualisation, working drawings and site execution. The stay produced case material that can be used directly in classroom teaching.

WHY IT MATTERS

Industry immersion closes the loop between the office and the classroom. What faculty see at a design desk today is what students can be taught to do tomorrow.

KEY OUTCOMES

- Practical exposure to architectural and interior design workflows
- Hands-on experience of BIM modelling, 3D visualisation, documentation and site execution
- Case material ready for use in classroom teaching
- A working relationship with a practising design firm

HOST

Modish 3D Designers, Coimbatore

COORDINATED BY

Mr. Aswin Bharath A

Sustainable Engineering Concepts and Life Cycle Analysis

1 July – 30 September 2025 | Online (NPTEL–SWAYAM)

An NPTEL course from IIT Kharagpur taken by faculty.

The course introduces the fundamental concepts behind the interaction of industrial and environmental or ecological systems, the sustainability challenges facing the present generation and the systems-based approaches needed to create sustainable solutions. Completing it strengthens the Department's ability to teach life cycle thinking, which is now central to construction and environmental engineering.

OUTCOMES Systems-based approaches to sustainability ▪ Interaction of industrial and ecological systems ▪ Life cycle analysis concepts for teaching

OFFERED BY IIT Kharagpur **PARTICIPATION** Faculty participant

Admixtures and Special Concretes

21 July – 10 October 2025 | Online (NPTEL–SWAYAM)

An NPTEL course from IIT Madras on how admixtures change the behaviour of concrete.

Building on the basics of construction materials and concrete technology, the course explains the mechanisms of action of chemical and mineral admixtures and their impact on the performance of concrete. Faculty who complete it bring an up-to-date view of special concretes to their teaching in materials and construction.

OUTCOMES Mechanisms of chemical and mineral admixtures ▪ Impact on concrete performance ▪ Updated content for materials teaching

OFFERED BY IIT Madras **PARTICIPATION** Faculty participant

FACULTY DEVELOPMENT PROGRAMME

Data Analysis with Jamovi and PLS-SEM using SmartPLS

26–27 September 2025 | XIME, Bengaluru

Hands-on training in advanced modelling for academic research.

This two-day programme gave faculty and researchers hands-on exposure to modern data-analysis tools, Jamovi for statistical analysis and SmartPLS for partial least squares structural equation modelling (PLS-SEM). These tools are widely used in survey-based and construction-management research, and the training equips Department faculty to guide student and doctoral research with them.

OUTCOMES Hands-on training in advanced modelling for academic research ▪ Working knowledge of Jamovi and SmartPLS

ORGANISED BY XIME, Bengaluru **PARTICIPATION** Faculty participant



EXHIBITION

AeroDefCon 2025: Aerospace and Defence Meet in Chennai

7–9 October 2025 | Chennai Trade Centre, Chennai

A professor and a PG Structural Engineering student took part in the aerospace and defence conclave.

AeroDefCon brings together global OEMs, Tier-1 suppliers, defence public sector undertakings, DRDO and Indian industry through structured B2B meetings, conferences, panel discussions and an exhibition of technologies, innovations and R&D opportunities. The Department exhibited and participated, gaining knowledge alongside a PG Structural Engineering student guided by Dr. K. Ramadevi.

OUTCOMES Exposure to aerospace and defence technologies and R&D opportunities ▪ Industry networking for faculty and a PG student

ORGANISED WITH Ministry of Defence, DRDO, Department of Defence Production and GIFAS

PARTICIPATION Faculty and 1 PG student

TRADE FAIR

IFAT India 2025: Water, Sewage, Solid Waste and Recycling

14–16 October 2025 | Bombay Exhibition Centre, Mumbai

India's leading environmental technology fair, seen through an academic's eyes.

The visit aimed to build an understanding of the latest developments and innovations in water, sewage, solid waste and recycling technologies. Expected outcomes included insights into industry-driven research and technology, and ideas that flow back into teaching and collaboration in the Environmental Engineering programmes.

OUTCOMES Latest developments in water, sewage and solid-waste technology ▪ Insight into industry-driven research

FAIR IFAT India (international trade fair) **PARTICIPATION** Faculty delegate

INTERNATIONAL CONFERENCE

10th Brunei International Conference on Engineering and Technology

18–24 October 2025 | Universiti Teknologi Brunei, Gadong, Brunei Darussalam

An international conference in Brunei Darussalam, and a route to funded research and student exchange.

The Department's Professor attended BICET 2025 with two aims: international connection through the presentation and publication of a conference paper, and scope for funded research projects and for student exchange or internships. It was one of the Department's international engagements during the semester.

OUTCOMES International connection through paper presentation and publication ▪ Scope for funded research projects and student exchange or internships

HOSTED BY Universiti Teknologi Brunei **PARTICIPATION** Faculty delegate

ONLINE CERTIFICATE COURSE

Indoor Air Quality Modelling: Basics to Policy Applications

1–23 November 2025 | Online

A one-month online course that traced indoor air from pollutants to policy.

The course offered a comprehensive introduction to indoor air quality and modelling tools: major indoor pollutants, emission sources and exposure pathways, monitoring techniques and instrumentation, data interpretation and health risk assessment, including vulnerability assessment and policy applications. It complements the Department's growing work in air quality.

OUTCOMES Indoor pollutants, sources and exposure pathways ▪ Monitoring techniques and data interpretation ▪ Health risk assessment and policy applications

FORMAT One-month certificate course **PARTICIPATION** Faculty participant

Online One-Month Certificate Course on Indoor Air Quality Modelling : Basics to Policy Applications

Organized by:
Center for Sustainable Environment and Education
Recognized: NITI Aayog (DARPA), AICTE, and e-AMUDAAA, Govt. of India

About the Course:
This one-month certificate program offers a focused introduction to indoor air quality (IAQ) and modeling tools, covering pollutants, sources, monitoring techniques, health risk assessment, and policy applications.

Key Topics Covered

- ♦ **Fundamentals of IAQ:** Key indoor pollutants and their sources, exposure pathways and health effects and IAQ standards and guidelines
- ♦ **Monitoring & Analysis:** "Instruments" dust monitors, gas analyzers, sensors, bioassess samples and basis of chemical analysis & data interpretation.
- ♦ **Health Impacts & Mitigation:** Spirometry and lung function basics, Health risk assessment: exposure response, DALYs, uncertainties and Mitigation strategies: source control, ventilation, filtration, air purifiers.
- ♦ **IAQ Modeling:** Introduction to IAQ Models, types of models: empirical, deterministic, probabilistic, Box model fundamentals & applications and Hands on with IAQ: simulations, sensitivity analysis, validation.
- ♦ **Policy Applications with BAR-HAP:** Overview of BAR-HAP framework, Policy scenarios: biomass → LPG, electricity, improved stoves, Outputs: exposure reduction, health gains, cost-effectiveness and Linking modeling evidence to policy action.

Who Should Attend

- Environmental Public Health Researchers
- Air Quality Professionals & Consultants
- Policymakers looking to address IAQ challenges
- Students in Environmental Science, Public Health.

Join us on
1st – 23rd Nov, 2025
every Sat & Sun
(6.30 PM-8.00 PM)
Fee : 1000/-

Scan for Registration

Faculty :



Dr. Amit Pasi
Senior Program Associate,
WHO India
Ph.D (IIT Madras)



Dr. Chithra V S
Scientist
CSIR-NEERI, Nagpur
Ph.D (IIT Madras)



Dr. Deepthi Vignani
Research Scientist
CSIR, Hyderabad
Ph.D (IIT Madras)

e-certificate will be issued for all the participants
More details
www.cseee.org
Ph: 930164607

INSTITUTIONAL VISIT

CSIR-NEERI, Nagpur: Exploring Collaboration in Environmental Research

11–14 November 2025 | CSIR-National Environmental Engineering Research Institute, Nagpur

A four-day visit to India's premier environmental engineering research institute.

The visit explored research internships, higher-education opportunities and career pathways in environmental engineering and sustainability. It offered insights into advanced environmental research, including air and water quality monitoring, waste management technologies and sustainable development projects, and sought technical collaboration with NEERI to strengthen the Air Centre on the KCT campus.

OUTCOMES Insight into NEERI's air and water quality research ▪ Technical collaboration to strengthen the campus Air Centre ▪ Pathways for internships and higher studies

INSTITUTION CSIR-NEERI, Nagpur **PARTICIPATION** Faculty visit

SHORT-TERM COURSE

Beyond Cars on Lanes: Modelling Pedestrians, Cyclists and Disordered Traffic

10–14 December 2025 | Hybrid mode

A one-week hybrid course on traffic that does not follow lanes.

The course covers the modelling and simulation of traffic beyond conventional lane-based systems, focusing on disordered traffic flow and pedestrian traffic flow. Approaches range from simplified Lighthill–Whitham–Richards (LWR) models to agent-based models for disordered traffic, including bicycle streams, and pedestrian flow using velocity vector fields and microscopic methods such as social-force and cellular-automata models.

OUTCOMES Macroscopic and microscopic traffic models ▪ Modelling of disordered, pedestrian and bicycle traffic

FORMAT One-week short-term course (hybrid) **PARTICIPATION** Faculty participant

SYMPOSIUM

River Health Evaluation and Protection: RHEAP 2025

29–30 December 2025 | NIT Karnataka, Surathkal, Mangalore

Fluvial geomorphology, remote sensing and pollution studies at NIT Karnataka.

RHEAP 2025 focused on fluvial geomorphology, applications of remote sensing in hydrology and water resources engineering, pollution studies and biological profiling for sustainable river systems. The Department's faculty member took part to bring current river-health thinking into teaching and research.

OUTCOMES Fluvial geomorphology and river-health evaluation ▪ Remote sensing in hydrology and water resources

ORGANISED BY Department of Water Resources, NIT Karnataka, Surathkal **PARTICIPATION** Faculty participant

First Steps on Site: Summer Internships 2025

One hundred and twelve first-year students, from Sivakasi to Salem

The first industry experience of a civil engineer is often an internship. In June and July 2025, 112 first-year students (Batch 2024) completed internships that ranged from a week on a construction site to a month in a design office. One hundred and five were placed with external hosts and seven took in-house internships within KCT: three in Civil Engineering on remote sensing and GIS, and four in Mechanical Engineering.

112

Students completed internships

5–31

Days in duration (median 10)

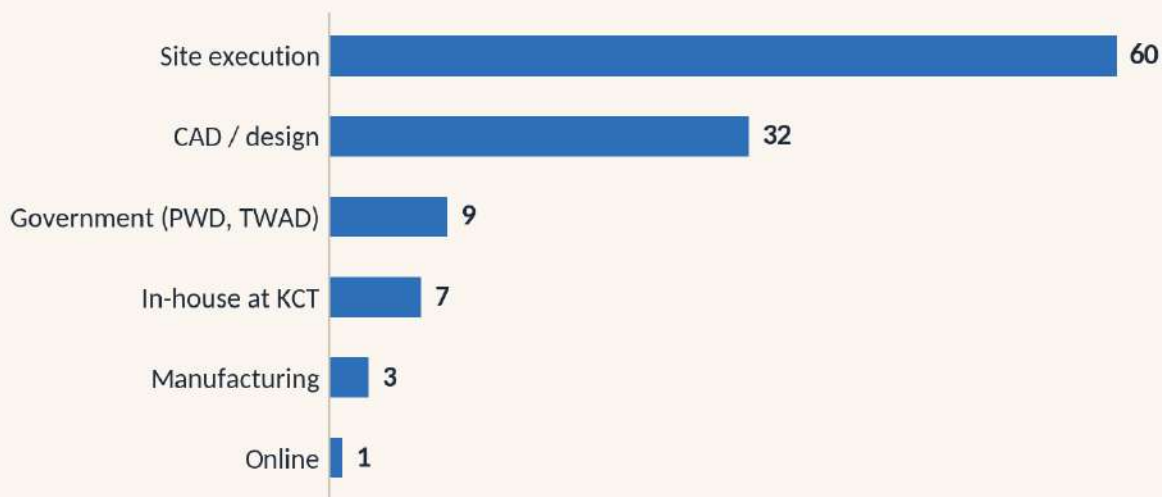
105 + 7

External and in-house placements

9 · 11

UN SDGs addressed: industry and infrastructure; sustainable cities

What students worked on



Hosts were spread across Tamil Nadu, including Sivakasi, Salem, Coimbatore, Erode, Namakkal and Tiruchirappalli. The largest share of students, sixty, worked on site execution; thirty-two were placed with CAD and design offices, nine with government bodies (PWD and TWAD), three in manufacturing, and one online.

What Students Said, and What Changes Next

Feedback from the 2025 cycle shaped the plan for the next one

4.4 / 5

Average student feedback score, up from 3.6 in the previous cycle

SDG 9

Industry, innovation and infrastructure

SDG 11

Sustainable cities and communities

Four changes for the next cycle

1

Screen hosts against the syllabus

Hosts will be screened against the syllabus before students are placed, so that the work matches what students are learning.

2

Minimum site activities and a documented problem

Each internship will include a minimum set of site activities and one documented problem, giving students a concrete deliverable.

3

A named mentor and a mid-internship review

Every student will have a named mentor, and a review will be held midway through the internship rather than only at the end.

4

A fuller briefing before the vacation

The pre-vacation briefing will be expanded, so that students know what to look for and what to record before they start.

Beyond the first year

In December 2025, students of Batch 2023 undertook in-plant training under the course U18CEP6705, with about 128 students on the roll. Details of that programme are being consolidated for the next issue.

DIGEST

Outcomes at a Glance

One headline outcome for every programme in this issue

PROGRAMME	WHEN	HEADLINE OUTCOME
01 PARTNERSHIPS & ADVISORY		
KCT and Bentley Systems India Join Hands	19 Sep 2025	Access to the Bentley Education Hub for students and faculty
Fluidyn MoU	22 Sep 2025	Hands-on experience in Fluidyn software for environmental modelling and fluid-dynamics simulation
Department Advisory Board Shapes the Road Ahead	13 Nov 2025	Department Vision and Mission finalised
02 INDUSTRY CO-TEACHING & GUEST LECTURES		
Rocks, Minerals and the Making of Soil	19 Jul 2025	Understanding of rock formation and mineralogy as a foundation for soil mechanics
Inside the Triaxial Test	6 Oct 2025	Clear understanding of how triaxial tests are set up and conducted
Advanced Solid Mechanics, Seen Through Industry Eyes	9 Oct 2025	Stronger grasp of fundamental and advanced concepts in solid mechanics
Biomedical Waste	10 Oct 2025	Knowledge of biomedical waste categories, treatment and disposal methods
Sewage Treatment	13 Oct 2025	Understanding of the function of each treatment stage in protecting public health and the environment
Estimation, Costing and BOQ	16 Oct 2025	Methodology for preparing detailed estimates and BOQs for highway projects
Highway Components and Design	16 Oct 2025	Understanding of key structural and functional components of highways and their role in performance

Outcomes at a Glance (continued)

PROGRAMME	WHEN	HEADLINE OUTCOME
Safety Management in Infrastructure Projects	17 Oct 2025	Importance of safety measures in the construction and maintenance phases
Xenobiotics	5 Dec 2025	Exposure to xenobiotics, their environmental persistence and pathways of ecological impact
Career Advancement Programme	18 Sep 2025	Preparation strategies for competitive exams
Earthquake Resistant Structures	22 Oct 2025	Principles of seismic design of RC structures
Total Quality Management	23 Oct 2025	ISO 9000 clauses, certification and auditing
03 WORKSHOPS & HANDS-ON TRAINING		
MIDAS Bridge	18–19 Jul 2025	Hands-on skill in modelling 2D beams, portal frames, 3D frames and box culverts
Research Efficiency	16–17 Sep 2025	Importance of a systematic approach in conducting literature reviews
Revit in Practice	22 Oct 2025	Process of detailing in Revit for architectural and structural drawings
STAAD.Pro	24 Oct 2025	Fundamental concepts of structural analysis applied to real engineering problems
Anna University & Autodesk Two-Day Student Bootcamp	19–20 Sep 2025	Hands-on introduction to Autodesk Revit
Autodesk Revit Fundamentals for Faculty	17–19 Nov 2025	A strong introduction to Revit and core BIM functions

Outcomes at a Glance (continued)

PROGRAMME	WHEN	HEADLINE OUTCOME
Analytical Instruments Up Close	27 Nov 2025	Hands-on exposure to AAS, HPLC and double-beam UV-Vis instruments
04 STUDENT LIFE & FIELD EXPOSURE		
Clearing the Forest	19 Jul 2025	A significant amount of plastic litter cleared from forest land
Constructing Careers	26 Aug 2025	Clarity about the range of career options in civil engineering
PG Students at the Tamil Nadu Global Start-up Summit	9 Oct 2025	Exposure to recent innovations and start-up technologies
The CIOB Student Chapter Opens at KCT	14 Oct 2025	Installation of the new office bearers of the chapter
Freeze the Frame	16–22 Oct 2025	A pollution-free, sustainable Diwali mindset promoted among students
Indian Concrete Institute Students Chapter Inaugurated	23 Oct 2025	Awareness of the objectives of the Indian Concrete Institute
Hack-A-Bit 2025	28 Oct 2025	Demonstration of core ideas and proof of technical viability
05 FACULTY & STAFF DEVELOPMENT		
Adani Cement FutureX	26–27 Sep 2025	A five-year institutional partnership agreement between KCT and Adani Cement, signed on 14 October 2025
Eleven Days in the Design Office	8–19 Dec 2025	Practical exposure to architectural and interior design workflows

Outcomes at a Glance (continued)

PROGRAMME	WHEN	HEADLINE OUTCOME
Sustainable Engineering Concepts and Life Cycle Analysis	1 Jul – 30 Sep 2025	Systems-based approaches to sustainability
Admixtures and Special Concretes	21 Jul – 10 Oct 2025	Mechanisms of chemical and mineral admixtures
Data Analysis with Jamovi and PLS-SEM using SmartPLS	26–27 Sep 2025	Hands-on training in advanced modelling for academic research
AeroDefCon 2025	7–9 Oct 2025	Exposure to aerospace and defence technologies and R&D opportunities
IFAT India 2025	14–16 Oct 2025	Latest developments in water, sewage and solid-waste technology
10th Brunei International Conference on Engineering and Technology	18–24 Oct 2025	International connection through paper presentation and publication
Indoor Air Quality Modelling	1–23 Nov 2025	Indoor pollutants, sources and exposure pathways
CSIR-NEERI, Nagpur	11–14 Nov 2025	Insight into NEERI's air and water quality research
Beyond Cars on Lanes	10–14 Dec 2025	Macroscopic and microscopic traffic models
River Health Evaluation and Protection	29–30 Dec 2025	Fluvial geomorphology and river-health evaluation

Partners Who Came Back

One session opens a door; the next ones build a relationship

Some of the Department's most valuable partners appear more than once in this record. Repeated engagement lets an expert see a course through, lets students follow a project across semesters and lets both sides plan beyond a single event.

Modish 3D Designers

Coimbatore design and BIM studio

17 Oct 2025 Safety management in infrastructure projects (co-teaching)

22 Oct 2025 Revit in Practice workshop for 75 second-year students

8–19 Dec 2025 Faculty industry immersion programme

USAM CADSoft India

Autodesk training partner

19–20 Sep 2025 Anna University & Autodesk student bootcamp

17–19 Nov 2025 FDP on Autodesk Revit Fundamentals for faculty

National Highways Authority of India

Project engineer, Coimbatore

16 Oct 2025 Estimation, costing and BOQ for highway projects

16 Oct 2025 Highway components and design

Adani Cement

Cement business, Adani Group

26–27 Sep 2025 FutureX conclave, Ahmedabad (faculty)

14 Oct 2025 Five-year partnership agreement signed

Voices from Industry and Academia

Resource persons, guests and experts who contributed to the programmes

NAME	DESIGNATION AND ORGANISATION	SESSION
Mr. Rajesh Kumar	Managing Director, Tech Apps Consulting (MIDAS)	MIDAS Bridge 18–19 Jul 2025
Dr. Ayaz Mohmood Dar	Research Associate III, Indian Institute of Science, Bengaluru	Rocks, Minerals and the Making of Soil 19 Jul 2025
Mr. Sri Ram Ramadass	Executive Director, Sri Ramkarthic Polymers	Constructing Careers 26 Aug 2025
Mr. Aswin Bharath A	Assistant Professor, Department of Civil Engineering, KCT	Research Efficiency 16–17 Sep 2025
Dr. A. Dinesh	Proprietor, Dr. A.D Academy of Excellence	Career Advancement Programme 18 Sep 2025
Mr. J. Vimal Devaprabhu (Manager – Training & Support) and Mr. Rahul Pasanth (Application Engineer)	USAM CADSoft India Pvt. Ltd.	Anna University & Autodesk Two-Day Student... 19–20 Sep 2025
Mr. Sreejith K. V.	Senior Manager, Fluidyn Consultancy Pvt. Ltd.	Fluidyn MoU: Bringing Environmental... 22 Sep 2025
Dr. Prakash Doraiswamy	Programme Director – Air Quality, World Resources Institute (WRI)	Fluidyn MoU: Bringing Environmental... 22 Sep 2025
Er. S. Mathiyarasu	Proprietor, Sri Veera Mathi Constructions (formerly of the Geotechnical Laboratory, NIT Tiruchirappalli)	Inside the Triaxial Test 6 Oct 2025
Er. P. Senthilkumar	Proprietor, Trilochana Associates	Advanced Solid Mechanics, Seen Through... 9 Oct 2025
Dr. Devahi	Assistant Engineer, Tamil Nadu Pollution Control Board	Biomedical Waste 10 Oct 2025
Dr. Mohammed Siraj Ansari A.	Scientist-C, Central Academy for State Forest Service (CASFoS), Burnihat, MoEF&CC, Government of India	Sewage Treatment 13 Oct 2025
Dr. K. Janarthanan	Founder, Gramathupaal (Chief Guest)	The CIOB Student Chapter Opens at KCT 14 Oct 2025
Er. C. Vanaja	District Environmental Engineer, Tamil Nadu Pollution Control Board (Guest of Honour)	The CIOB Student Chapter Opens at KCT 14 Oct 2025
Mr. Richard Samuel	Project Engineer, National Highways Authority of India (NHAI)	Estimation, Costing and BOQ 16 Oct 2025
Mr. Richard Samuel	Project Engineer, National Highways Authority of India (NHAI)	Highway Components and Design 16 Oct 2025

Voices from Industry and Academia (continued)

NAME	DESIGNATION AND ORGANISATION	SESSION
Mr. B. Ariharan	Executive Manager, Modish 3D Designers	Safety Management in Infrastructure Projects 17 Oct 2025
Er. S. Arnesh	Structural Engineer, Mithran Structures (KCT alumnus)	Earthquake Resistant Structures 22 Oct 2025
Mr. Sujan Karthick C	Design Engineer, Modish 3D Designers	Revit in Practice 22 Oct 2025
Ms. V. Sri Santhya	Joint Director & Quality Manager, Nature Science Foundation, Coimbatore	Total Quality Management 23 Oct 2025
Rtn. Er. Thilak Ranjith T.	Proprietor & Consultant, TR Associates, Coimbatore	Indian Concrete Institute Students Chapter... 23 Oct 2025
Er. V. Senthil Kumar	Managing Director, Shreeisti Contriver Pvt. Ltd., Coimbatore	STAAD.Pro: Hand Calculation Meets the... 24 Oct 2025
Mr. Chenna Prasad	Managing Partner, Hydrotech Engineering Solutions	Hack-A-Bit 2025 28 Oct 2025
Dr. Rajasekhar Balasubramaniam (NUS)	—	Department Advisory Board Shapes the Road... 13 Nov 2025
Dr. M. Harikrishna (NIT Calicut)	—	Department Advisory Board Shapes the Road... 13 Nov 2025
Dr. R. Prasanna Venkatesan (VIT)	—	Department Advisory Board Shapes the Road... 13 Nov 2025
Mr. Suresh Kumar	KBR, Chennai	Department Advisory Board Shapes the Road... 13 Nov 2025
Mr. Prithviraj (ARCADIS US Inc.)	—	Department Advisory Board Shapes the Road... 13 Nov 2025
Dr. Sreevalsa Kolathayar (NIT)	—	Department Advisory Board Shapes the Road... 13 Nov 2025
Mr. J. Vimal Devaprabhu	Manager – Training & Support, USAM CADSoft India Pvt. Ltd.	Autodesk Revit Fundamentals for Faculty 17–19 Nov 2025
Mr. Anandaraj and Mr. Mageshwaran	Senior Engineers, Instrument Care Pvt. Ltd., Chennai	Analytical Instruments Up Close 27 Nov 2025
Dr. G. Velmurugan	Scientist, Chemomicrobiomics Laboratory, Department of Biochemistry & Microbiology	Xenobiotics: How Chemicals and Microbes... 5 Dec 2025

Organisations We Worked With

Industry, government, professional bodies and academic partners named in this issue

INDUSTRY & PROFESSIONAL PRACTICE

- Bentley Systems India
- Fluidyn Consultancy
- Adani Cement · FutureX
- Modish 3D Designers
- Mithran Structures
- Shreeisti Contriver
- Hydrotech Engineering Solutions
- Tech Apps Consulting (MIDAS)
- USAM CADSoft India (Autodesk)
- Instrument Care (Thermo Fisher)
- Trilochana Associates
- TR Associates
- Sri Veera Mathi Constructions
- Nature Science Foundation
- Sri Ramkarthic Polymers
- KBR, Chennai
- ARCADIS US

GOVERNMENT & REGULATORS

- National Highways Authority of India
- Tamil Nadu Pollution Control Board
- MoEF&CC, Government of India (CASFoS)
- Tamil Nadu Forest Department
- DRDO / Ministry of Defence (AeroDefCon)

ACADEMIC & RESEARCH INSTITUTIONS

- Indian Institute of Science, Bengaluru
- National University of Singapore
- NIT Calicut
- NIT Karnataka, Surathkal
- VIT
- XIME, Bengaluru
- IIT Kharagpur and IIT Madras (NPTEL)
- CSIR-NEERI, Nagpur
- Universiti Teknologi Brunei
- Anna University
- World Resources Institute

PROFESSIONAL BODIES

- Chartered Institute of Building (CIOB)
- Indian Concrete Institute (ICI)

CALENDAR

Every Programme, in Order

June – December 2025

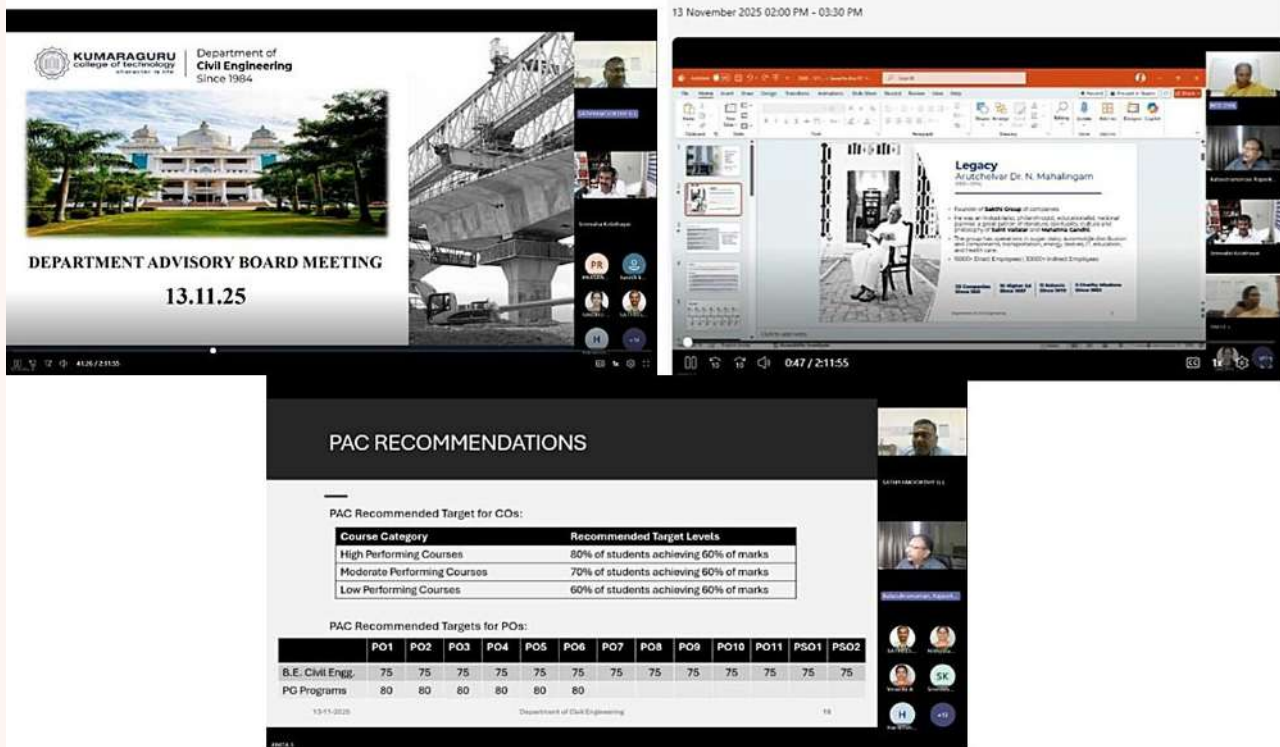
DATE	PROGRAMME	SECTION
1 Jul – 30 Sep 2025	Sustainable Engineering Concepts and Life Cycle Analysis	● Faculty & Staff Development
18–19 Jul 2025	MIDAS Bridge: Two Days of Hands-on Bridge Design	● Workshops & Hands-on Training
19 Jul 2025	Rocks, Minerals and the Making of Soil	● Industry Co-Teaching & Guest Lectures
19 Jul 2025	Clearing the Forest: A Plastic-Free Morning at Madukkarai	● Student Life & Field Exposure
21 Jul – 10 Oct 2025	Admixtures and Special Concretes	● Faculty & Staff Development
26 Aug 2025	Constructing Careers: Paths Beyond the Obvious	● Student Life & Field Exposure
16–17 Sep 2025	Research Efficiency: Smarter Tools for Literature Review and Data Analysis	● Workshops & Hands-on Training
18 Sep 2025	Career Advancement Programme: A Roadmap for Competitive Exams	● Industry Co-Teaching & Guest Lectures
19 Sep 2025	KCT and Bentley Systems India Join Hands	● Partnerships & Advisory
19–20 Sep 2025	Anna University & Autodesk Two-Day Student Bootcamp	● Workshops & Hands-on Training
22 Sep 2025	Fluidyn MoU: Bringing Environmental Modelling into the Classroom	● Partnerships & Advisory
26–27 Sep 2025	Adani Cement FutureX: Building a Bridge Between Campus and Plant	● Faculty & Staff Development
26–27 Sep 2025	Data Analysis with Jamovi and PLS-SEM using SmartPLS	● Faculty & Staff Development
6 Oct 2025	Inside the Triaxial Test: Soil Strength Made Visible	● Industry Co-Teaching & Guest Lectures
7–9 Oct 2025	AeroDefCon 2025: Aerospace and Defence Meet in Chennai	● Faculty & Staff Development
9 Oct 2025	Advanced Solid Mechanics, Seen Through Industry Eyes	● Industry Co-Teaching & Guest Lectures
9 Oct 2025	PG Students at the Tamil Nadu Global Start-up Summit	● Student Life & Field Exposure
10 Oct 2025	Biomedical Waste: Treatment, Rules and Real Cases	● Industry Co-Teaching & Guest Lectures
13 Oct 2025	Sewage Treatment: From Collection to Disposal	● Industry Co-Teaching & Guest Lectures
14 Oct 2025	The CIOB Student Chapter Opens at KCT	● Student Life & Field Exposure
14–16 Oct 2025	IFAT India 2025: Water, Sewage, Solid Waste and Recycling	● Faculty & Staff Development

Every Programme, in Order (continued)

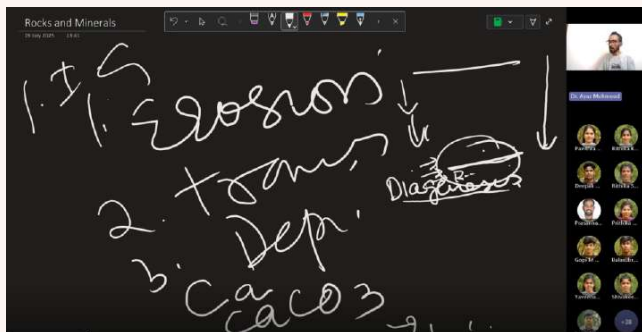
DATE	PROGRAMME	SECTION
16 Oct 2025	Estimation, Costing and BOQ: Highway Projects in Practice	● Industry Co-Teaching & Guest Lectures
16 Oct 2025	Highway Components and Design: Insights from the Field	● Industry Co-Teaching & Guest Lectures
16–22 Oct 2025	Freeze the Frame: A Pollution-Free Diwali Through the Lens	● Student Life & Field Exposure
17 Oct 2025	Safety Management in Infrastructure Projects	● Industry Co-Teaching & Guest Lectures
18–24 Oct 2025	10th Brunei International Conference on Engineering and Technology	● Faculty & Staff Development
22 Oct 2025	Earthquake Resistant Structures: An Alumnus Returns to Teach	● Industry Co-Teaching & Guest Lectures
22 Oct 2025	Revit in Practice: From Detailing to the Layout Sheet	● Workshops & Hands-on Training
23 Oct 2025	Total Quality Management: ISO Systems in Practice	● Industry Co-Teaching & Guest Lectures
23 Oct 2025	Indian Concrete Institute Students Chapter Inaugurated	● Student Life & Field Exposure
24 Oct 2025	STAAD.Pro: Hand Calculation Meets the Software	● Workshops & Hands-on Training
28 Oct 2025	Hack-A-Bit 2025: Prototypes, Problem-solving and Pride	● Student Life & Field Exposure
1–23 Nov 2025	Indoor Air Quality Modelling: Basics to Policy Applications	● Faculty & Staff Development
11–14 Nov 2025	CSIR-NEERI, Nagpur: Exploring Collaboration in Environmental Research	● Faculty & Staff Development
13 Nov 2025	Department Advisory Board Shapes the Road Ahead	● Partnerships & Advisory
17–19 Nov 2025	Autodesk Revit Fundamentals for Faculty	● Workshops & Hands-on Training
27 Nov 2025	Analytical Instruments Up Close: HPLC, AAS and UV-Vis	● Workshops & Hands-on Training
5 Dec 2025	Xenobiotics: How Chemicals and Microbes Shape Ecosystems	● Industry Co-Teaching & Guest Lectures
8–19 Dec 2025	Eleven Days in the Design Office: A Faculty Immersion	● Faculty & Staff Development
10–14 Dec 2025	Beyond Cars on Lanes: Modelling Pedestrians, Cyclists and Disordered Traffic	● Faculty & Staff Development
29–30 Dec 2025	River Health Evaluation and Protection: RHEAP 2025	● Faculty & Staff Development

Moments from the Period

Photographs from the programmes in this issue



Department Advisory Board Shapes the Road Ahead

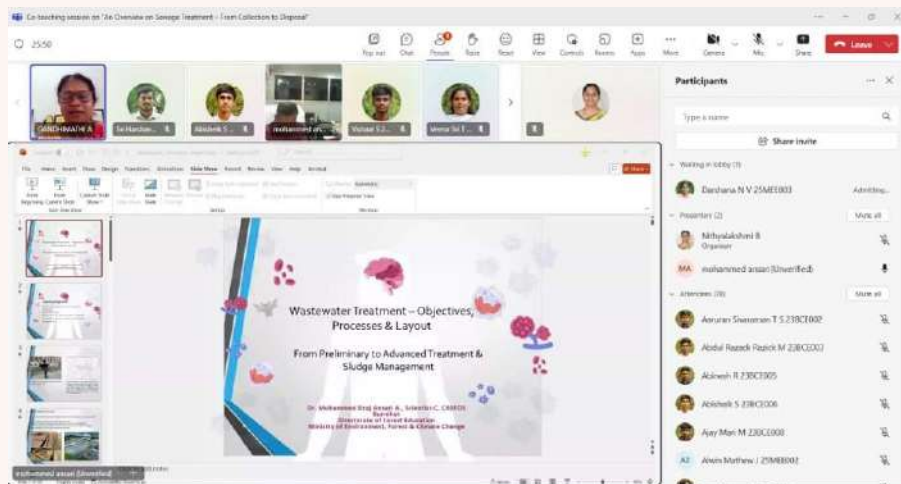


Rocks, Minerals and the Making of Soil



Advanced Solid Mechanics, Seen Through Industry Eyes

Moments from the Period (continued)



Sewage Treatment: From Collection to Disposal



Estimation, Costing and BOQ: Highway Projects in Practice



Highway Components and Design: Insights from the Field

Moments from the Period (continued)



Xenobiotics: How Chemicals and Microbes Shape Ecosystems



MIDAS Bridge: Two Days of Hands-on Bridge Design



Research Efficiency: Smarter Tools for Literature Review and Data Analysis

Moments from the Period (continued)



Revit in Practice: From Detailing to the Layout Sheet



STAAD.Pro: Hand Calculation Meets the Software



Clearing the Forest: A Plastic-Free Morning at Madukkarai

Moments from the Period (continued)



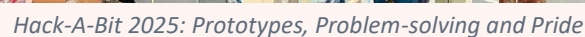
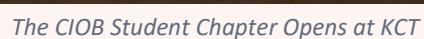
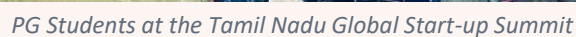
Constructing Careers: Paths Beyond the Obvious



PG Students at the Tamil Nadu Global Start-up Summit



PG Students at the Tamil Nadu Global Start-up Summit



Moments from the Period (continued)



Data Analysis with Jamovi and PLS-SEM using SmartPLS



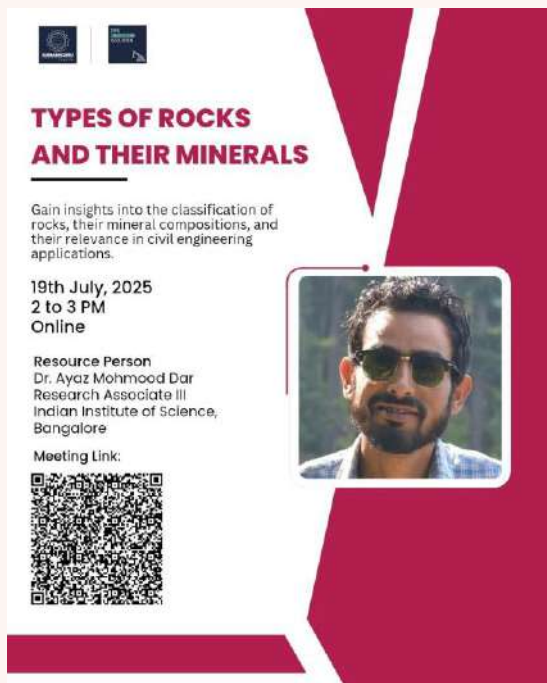
PG students at the Tamil Nadu Global Start-up Summit



PG students at the Tamil Nadu Global Start-up Summit

Posters and Invitations

Announcements circulated for the programmes in this issue



TYPES OF ROCKS AND THEIR MINERALS

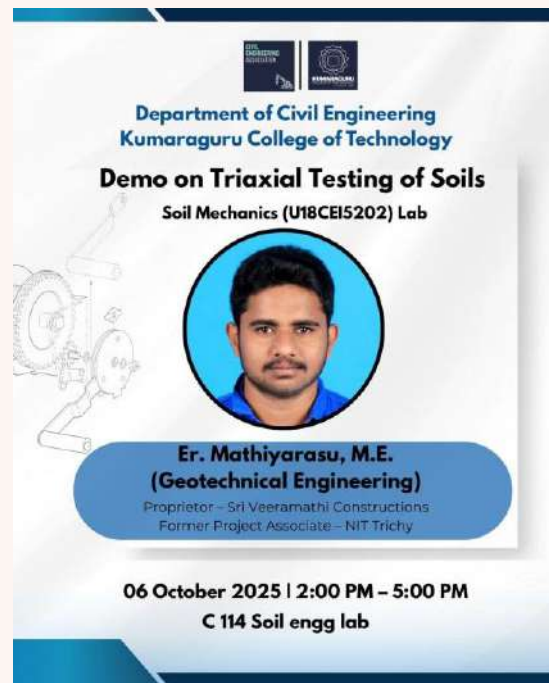
Gain insights into the classification of rocks, their mineral compositions, and their relevance in civil engineering applications.

19th July, 2025
2 to 3 PM
Online

Resource Person
Dr. Ayaz Mohmood Dar
Research Associate III
Indian Institute of Science,
Bangalore

Meeting Link:


Rocks, Minerals and the Making of Soil



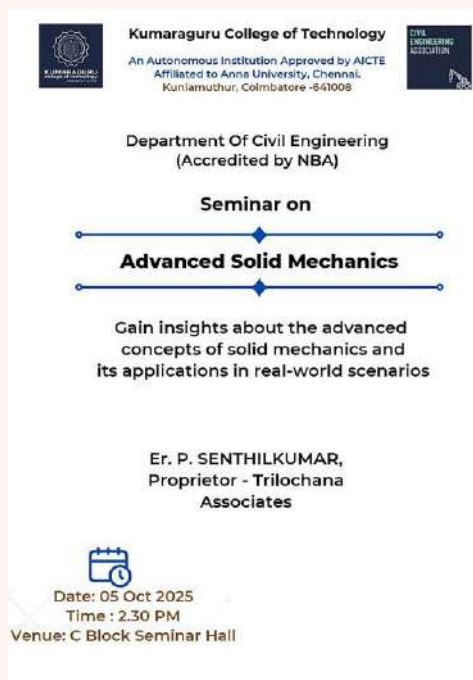
**Department of Civil Engineering
Kumaraguru College of Technology**

Demo on Triaxial Testing of Soils
Soil Mechanics (U18CEI5202) Lab

**Er. Mathiyarasu, M.E.
(Geotechnical Engineering)**
Proprietor – Sri Veeramathi Constructions
Former Project Associate – NIT Trichy

06 October 2025 | 2:00 PM – 5:00 PM
C 114 Soil engg lab

Inside the Triaxial Test: Soil Strength Made Visible



Kumaraguru College of Technology
An Autonomous Institution Approved by AICTE
Affiliated to Anna University, Chennai.
Kuniamuthur, Coimbatore -641008

**Department Of Civil Engineering
(Accredited by NBA)**

Seminar on

Advanced Solid Mechanics

Gain insights about the advanced concepts of solid mechanics and its applications in real-world scenarios

**Er. P. SENTHILKUMAR,
Proprietor - Trilochana
Associates**


Date: 05 Oct 2025
Time : 2.30 PM
Venue: C Block Seminar Hall

Advanced Solid Mechanics, Seen Through Industry Eyes



Co-teaching session on An Overview on Sewage Treatment – From Collection to Disposal

Dr. Mohammed Siraj Ansari A.
Scientist -C, Central Academy for State Forest Service (CASFoS), Baramhal, Coimbatore,
Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India

 13.10.2025
 10.45 AM TO 12.45 PM

Dr. Mohammed Siraj Ansari holds a Ph.D. in Civil Engineering from Anna University, specializing in groundwater quality assessment and environmental systems. With prior experience as an Assistant Professor at Coimbatore Institute of Technology and as a Technical Officer in the Central Public Health & Environmental Engineering Organisation (CPHEEO), Ministry of Housing and Urban Affairs, he brings over a decade of expertise in teaching, research, and environmental project appraisal. At CASFoS, he serves as Course Director for training programs for forest officers, in addition to roles as Estate Officer, CPIO, and Nodal Officer for institutional digital platforms and governance initiatives. His research interests include water and wastewater management, pollution control, and environmental modelling, with 8 journal publications and 18 conference contributions.

FACULTY COORDINATOR'S
Dr. B. NITHYALAKSHMI, AP-II
& Dr. A. GANDHIMATHI, ASP
DEPARTMENT OF CIVIL ENGINEERING

HYBRID MODE
MEETING LINK - <https://tper.in/eSumu30>

Sewage Treatment: From Collection to Disposal

Posters and Invitations (continued)



CONSTRUCTING CAREERS

Join us for an Awareness Programme on Career Opportunities in Civil Engineering!

Explore diverse career paths, gain expert Insights, and learn how your skills can shape the future of infrastructure and sustainability. Don't miss this chance to plan your career with confidence!

SPEAKER
Mr. SRIRAM RAMDASS
Executive Director ,
Sri Ramkarthic Polymers,
Coimbatore

Event Coordinator
Mr.K.Sathiyathan
Dr.R.Manju

26 August
2 pm - 3 pm
C-block Seminar hall

Constructing Careers: Paths Beyond the Obvious



FREEZE THE FRAME

Illuminate this festive season through your lens! Capture the spirit of a sustainable and pollution-less Diwali, where light replaces smoke and joy outshines noise. Let your photography reflect eco-friendly celebrations, mindful traditions, and the true essence of a brighter, cleaner tomorrow.

16 to 22 Oct 2025 | Mode : Online

"Celebrate with light, not smoke."

Freeze the Frame: A Pollution-Free Diwali Through the Lens



Online One-Month Certificate Course on Indoor Air Quality Modeling : Basics to Policy Applications

Organized by:
Center for Sustainable Environment and Education
Recognized: NITI Aayog (DARPA), AICTE, and e-AMUDAAAN, Govt. of India

About the Course:
This one-month certificate program offers a focused introduction to indoor air quality (IAQ) and modeling tools, covering pollutants, sources, monitoring techniques, health risk assessment, and policy applications.

Key Topics Covered

- ♦ **Fundamentals of IAQ:** Key indoor pollutants and their sources, exposure pathways and health effects and IAQ standards and guidelines
- ♦ **Monitoring & Analysis:** "Instruments" dust monitors, gas analyzers, sensors, bioaerosol samplers and basics of chemical analysis & data interpretation.
- ♦ **Health Impacts & Mitigation:** Spirometry and lung function basics, Health risk assessment: exposure-response, DALYs, uncertainties and Mitigation strategies: source control, ventilation, filtration, air purifiers.
- ♦ **IAQ Modeling:** Introduction to IAQ Models, Types of models: empirical, deterministic, probabilistic, Box model fundamentals & applications and Hands-on with IAQX simulations, sensitivity analysis, validation
- ♦ **Policy Applications with BAR-MAP:** Overview of BAR-MAP framework, Policy scenarios: biomass → LPG, electricity, improved stoves, Outputs: exposure reduction, health gains, cost-effectiveness and Linking modeling evidence to policy action

Who Should Attend

- Environmental/Public Health Researchers.
- Air Quality Professionals & Consultants.
- Policymakers looking to address IAQ challenges.
- Students in Environmental Science, Public Health.

Join us on
1st – 23rd Nov, 2025
every Sat & Sun
(6.30 PM-8.00 PM)
Fee : 1000/-

Scan for Registration

Faculty :

- Dr. Amit Passi**
Senior Program Associate,
WHO India
Ph.D (IIT Madras)
- Dr. Chithra V S**
Scientist
CWRDM, Calicut
Ph.D (IIT Madras)
- Dr. Deepthi Yaparla**
Research Scientist
CSEE, Hyderabad
Ph.D (IIT Madras)

e-certificate will be issued for all the participants

More details
www.csee.in
Ph: 6369164097

Indoor Air Quality Modelling: Basics to Policy Applications

THE CIVIL CHRONICLE

Department of Civil Engineering · Kumaraguru College of Technology, Coimbatore



Coimbatore, Tamil Nadu, India

Saravaramoorthy, Coimbatore, Tamil Nadu 641035, India

Lat: 11.076708, Long: 76.987784

Thu, May 26, 2023 11:09 AM GMT+5:30

Image captured by GPS Map Camera

THE TEAM BEHIND THIS ISSUE



Mr. Aswin Bharath A

Newsletter Coordinator

Assistant Professor, Department of Civil Engineering



Dr. V. Gayathri

Head of the Department

Department of Civil Engineering

Building knowledge, building industry links, building the future.