



Institute of Infrastructure, Technology, Research
And Management



REPERTUS

12TH- 14TH MARCH 2K26

*Civil
Tech Fest*



DEPARTMENT
OF CIVIL
ENGINEERING

About IITRAM

The Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad, is an autonomous university established by the Government of Gujarat and inaugurated by the then Chief Minister of Gujarat, Shri Narendra Modi. With a vision to develop globally skilled engineers and innovators, the institute has made significant contributions to various national initiatives and has provided expert services to organisations such as ISRO, DRDO, GIDC and AMC. IITRAM has been recognized among India's Best Engineering Colleges and has been honoured as an Outstanding Engineering Institute in the Western region.

The Civil Engineering Department stands as a distinguished centre of academic excellence and professional growth, consistently producing top-tier talent recognized by both industry and academia. Since 2021, students have earned prestigious accolades, including Gold Medals from the Gujarat Institute of Civil Engineers and Architects (GICEA), securing the top position in the University Challenge powered by DWA Germany, DAAD Germany, and IFAT India 2025, and receiving Best Paper and Best Presentation Awards at international conferences. Doctoral candidates have also been honoured with Best Ph.D. Thesis Awards, reflecting the department's strong research culture. This academic rigour is further strengthened through close collaboration with industry and government institutions, providing students with invaluable practical exposure through internships and project-based learning. Students have worked with reputed national and international organizations such as NBCC (India) Ltd., Larsen & Toubro (L&T), Allied Contracting LLC (Dubai, UAE), and several others, along with multiple government bodies.

About Repertus 2K26

Repertus is the national-level Civil Engineering Tech Fest of IITRAM, Ahmedabad, a three-day celebration of innovation, technology, and creativity. Living up to its name, which means “to discover,” Repertus embodies the spirit of exploration and engineering excellence that defines IITRAM.

The fest aims to bring together bright minds from across the nation to exchange ideas, solve real-world challenges, and showcase the evolving face of modern civil engineering. With an expected footfall of over 1500 participants, Repertus serves as a melting pot of talent, blending technical competitions, expert workshops, and cultural experiences into one unforgettable festival.

From intense technical showcases to engaging workshops and fun-filled evenings of music, dance, and stand-up comedy, Repertus promises an inspiring environment where learning meets laughter and innovation meets imagination.

Repertus is not just an event. It is a platform that inspires young engineers to build, connect, and lead the sustainable future of infrastructure and design.



REPERTUS TIMELINE

DAY 01

- Workshop
- Ansys Tech Day
- Ecostruct
- Infrascap

DAY 02

- Detect the Defect
- CADsprint
- Construction of Spaghetti Structures
- Constructoons
- UrbanX
- Civil Diaries
- Kaun Banega Civil Engineer

DAY 03

- GeoVolt Challenge
- Bricconomics
- Dijkstra Dash
- Panel Discussion
- Valedictory Function and Prize distribution
- Cultural Event

ANSYS TECH DAY

Expert Talk 1 - Powering Innovation with ANSYS Multiphysics

Step into the world of simulation! This session unveils how ANSYS Multiphysics transforms imagination into innovation, from design to reality. Discover how engineers simulate the impossible and bring ideas to life before a single prototype is built!

Expert Talk 2 - Engineering the Future: ANSYS for Civil Visionaries

Dive into the real where technology meets infrastructure. Learn how ANSYS tools are reshaping the way we build, making it smarter, safer, and more sustainable. Through real-world case studies, this session bridges civil engineering concepts with the precision of digital simulation.

Online Quiz - Battle of the Brightest

Think you know your simulations? Prove it! A rapid-fire quiz that challenges wit, speed, and technical know-how. Only the sharpest minds will make it to the Top 10 and earn a chance to compete in the exclusive ANSYS Lab Challenge.

Exclusive Lab Competition - The Simulation Showdown

The finalists face off in a high-stakes, hands-on battle of engineering brilliance. Using ANSYS tools, participants tackle real-world design problems, pushing creativity, logic, and simulation skills to the limit. The best minds rise, and innovation takes the spotlight.



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Certificates for Every Participant!!



Join us for an intensive **Microsoft Excel Workshop** that takes you from the fundamentals to advanced data analysis techniques. Starting with basic formulas and formatting, the workshop gradually builds up to complex functions, pivot tables, data visualization, and automation using macros.

Registration fees:

₹299 per participant



Autodesk Revit, a powerful tool for Building Information Modeling (BIM) that enhances design visualization, coordination, and collaboration in civil and architectural engineering projects. Participants will learn how to create 3D models, manage project data efficiently, and integrate sustainability principles into their designs.

Registration fees:

₹499 per participant



This session focuses on **STAADPro**, an advanced software for structural analysis and design optimization. Participants will gain hands-on experience in analyzing different types of structures, applying loads, and ensuring safety and stability in design.

Registration fees:

₹499 per participant

ORACLE

PRIMAVERA

Registration fees:

₹499 per participant

Primavera P6 is a powerful project management software widely used in Construction Management and Contract (CMC) work, focusing on project scheduling, resource allocation, progress tracking, and cost control. Participants will learn how to plan, monitor, and manage complex civil engineering projects effectively.



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(Excel)

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A STEP TOWARDS REFINING ENGINEERING SKILLS...

Maninagar, Ahmedabad

(Autodesk Revit, STAADPro, Primavera P6)

Dijkstra Dash

This event is designed for engineering students to explore the practical application of Dijkstra's algorithm in solving real-world civil engineering problems. Participants will use the algorithm to analyse and optimize scenarios such as traffic management, shortest routes for emergency vehicles, and efficient pathways for material transport. The event emphasizes logical thinking, optimization, and spatial visualization. By bridging the gap between algorithm and real-world infrastructure planning, this competition encourages participants to apply techniques to enhance efficiency in civil engineering transportation systems.



Registration fees: ₹299 per participant

Prize Pool

₹15,500!!



Registration fees: ₹499 per team

Prize Pool

₹22,500!!

Ecostruct

“EcoStruct 2026” is a Poster & Model Presentation Competition designed to inspire students to merge innovation with practical engineering for a smarter and more sustainable future. Participants are encouraged to express their ideas through either poster to communicate the concept, research, and real-world relevance, or model to bring those solutions to life in three-dimensional form. Models can be either working or static but must be original creations with clearly labelled components and a short concept description.

Construction of Spaghetti Structures

Construction of Spaghetti Structures is an exciting hands-on competition where competitors step into the role of structural engineers. Using only spaghetti strands and threads, each team must design and build a bridge of the specified span capable of carrying the maximum possible load before failure.

The event challenges participants to apply creativity, precision, and engineering logic while managing material limitations and time constraints.



Registration fees: ₹349 per team

Prize Pool

₹12,000!!

Constructoons



Constructoons is a creative competition that blends art with engineering insight. Competitors are invited to illustrate engineering concepts, innovations, or real-world challenges through a hand-drawn comic strip. Whether witty, informative, or inspiring, the comic should creatively capture ideas from the field of Civil Engineering in a visually appealing way. The event unfolds in two stages- an online submission round followed by an exciting on-the-spot offline finale for the top 10 shortlisted entries.

Registration fees: ₹149 per participant

Prize Pool

₹8,000!!

CAD Sprint

CAD Sprint is a fast-paced AutoCAD design competition that challenges participants to think critically, draft efficiently, and deliver accurate solutions within a limited timeframe. Each participant receives a surprise design problem and must create a precise and detailed CAD drawing within two hours, demonstrating both speed and technical clarity.

The event provides an ideal platform for students to showcase their drafting expertise, strengthen their time-management skills, and enhance their overall technical precision in a competitive yet learning-driven environment.



Registration fees: ₹299 per participant

Prize Pool

₹15,500!!

GeoVolt Challenge



Registration fees: ₹399 per participant

Prize Pool

₹16,000!!

GeoVolt Challenge is a groundbreaking initiative shaping the future of sustainable urban development. It integrates QGIS technology with real-world sustainability challenges. Participants use spatial data analysis and multi-criteria decision-making to design resilient urban solutions. The challenge empowers participants to become modern urban planners, blending technology and environmental responsibility. It fosters data-driven innovation and sustainable engineering practices.

Briconomics

Briconomics is a flagship event of our Civil Tech Fest that bridges the gap between academic learning and real world engineering practice. Centred around affordable housing, it challenges participants to think like professional engineers, analysing real housing plans and performing precise estimations.

Through this platform, participants gain practical exposure to project planning, budgeting, and decision-making, shaping them into engineers ready to design a better, more affordable future.



Registration fees: ₹199 per team

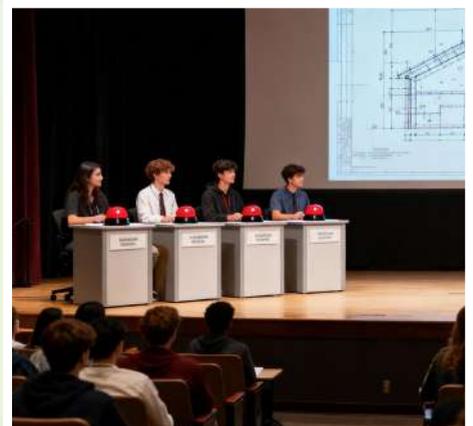
Prize Pool

₹11,000!!

Kaun Banega Civil-Engineer

Kaun Banega Civil Engineer is an exciting civil-engineering quiz event inspired by the iconic KBC format. Designed to test conceptual clarity, theoretical understanding, and quick decision-making, the event challenges participants through fast-paced rounds, rising difficulty levels, and lifelines that add thrill and strategy.

From the Fastest Finger First to the intense Hot Seat, contestants compete individually for milestone-based rewards, showcasing their knowledge, reflexes, and confidence.



Registration fees: ₹299 per participant

Prize Pool

₹30,000!!

Civil Diaries

Civil Dairies is a short-film competition that brings the untold journey of civil engineers to the spotlight. Participants are invited to create a short movie capturing the humour, struggle, passion, and pride that define life in civil engineering whether on site, in the classroom, or beyond. Through creativity and storytelling, teams will portray the real emotions behind hard hats and blueprints. From relatable fun to meaningful messages, Civil Dairies celebrates the spirit of every civil engineer.



Registration fees: ₹699 per team

Prize Pool

₹24,000!!

InfraScape

Infrascape is an engaging photography competition that invites students to explore and capture the hidden beauty, strength, and marvels of civil infrastructure.

Each photograph must be supported by a brief explanation of design concept or functionality of the captured structure allowing participants to make use of creativity, technical understanding, and observation skills to highlight the fascinating world of civil engineering.



Registration fees: ₹49 per participant

Prize Pool

₹3,500!!

Urban X

Urban X is a team-based challenge where participants plan a city map using provided infrastructure cards. The map will be featuring elements like plains, hills, rivers, and road networks.

The team will be provided a virtual budget of 100 points. Teams will “purchase” infrastructure cards such as dams, utilities, transport systems, bridges etc. The event emphasizes innovative urban zoning, connectivity, sustainability, and locational accuracy.



Registration fees: ₹599 per team

Prize Pool

₹21,000!!

Detect the Defect



Registration fees: ₹199 per team

Prize Pool

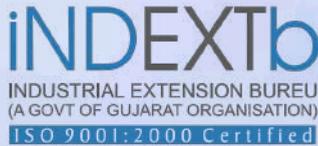
₹10,000!!

Detect the Defect is an exciting and investigative technical challenge where participants step into the shoes of civil engineers. Each team will receive a detailed case file inspired by actual structural failures, such as cracked bridges, sinking pavements, damaged retaining walls, or faulty constructions observed in the field. The mission is to analyse evidences and determine root causes. This event combines technical knowledge, analytical reasoning, creativity, and presentation skills, encouraging participants to think critically and demonstrate how civil engineers diagnose, tackle, and prevent structural defects.

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**Passes for
Cultural
Events(15)**

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STALL

**Event ID
Branding**

**Mention
on KITS**

**LED
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Ads**

**Optional
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Material in
KITS**

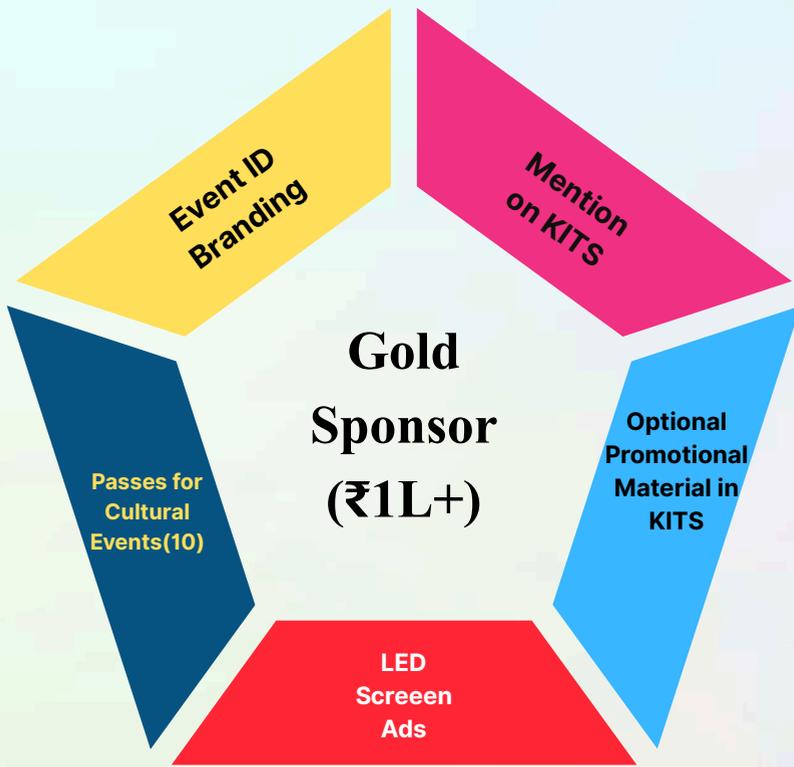
**Passes for
Cultural
Events(15)**

**Dedicated
LED Screen
Ads**

Media and PR

**Event /
Workshop
Association**





REVISITING OUR 2016 CHAPTER



Shri Mukesh Kumar, IAS
Principal Secretary, GoG



REPERTUS

2K26

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SCAN ME

