

# *Civil Connect*

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## Department of Civil Engineering



**Gandhi Institute of Advanced Computer and Research**

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It is a privilege to present the current issue of the Bi-Annual Newsletter of the Department of Civil Engineering. This publication highlights the key academic, technical, and co-curricular activities undertaken during the past six months.

The newsletter captures departmental events such as workshops, seminars, expert lectures, industrial visits, student projects, faculty achievements, and outreach activities. These initiatives reflect our commitment to providing quality technical education and practical exposure to our students. Such contributions not only enhance communication skills but also foster confidence, creativity, and professional growth.

I sincerely thank all students, faculty members, and the editorial team for their valuable contributions and continuous support in bringing out this issue successfully. Their dedication and teamwork strengthen the academic culture of the department.

Let this newsletter inspire us to pursue excellence, innovation, and responsibility in shaping the built environment for a better tomorrow.

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## Message from the Principal



It is truly heartening to witness the Civil Engineering Department of our college publishing its bi-annual newsletter, a testament to the department's vibrant academic culture and forward-thinking initiatives. The branch of Civil Engineering continues to make noteworthy contributions to emerging domains such as autonomous civil vehicles, renewable energy systems, and sustainable infrastructure development.

The evolving landscape of science and technology underscores the pivotal role of Civil engineers in shaping a resilient and innovative future. In response to these dynamic challenges, the department has proactively introduced a range of measures aimed at equipping students with the skills and mindset needed to thrive in this transformative era.

This bi-annual newsletter serves as a reflection of the department's commitment to excellence, showcasing key activities, achievements, and initiatives that foster academic growth, technological advancement, and societal impact.

## Message from the Head



Greetings!

I am delighted to witness the launch of the Department of Civil Engineering's newsletter—a vibrant platform that fosters connection among students, faculty, and stakeholders by showcasing the department's dynamic activities and achievements.

This edition proudly highlights the Project Expo and the ongoing Research and Development initiatives, reflecting the innovative spirit and academic rigor of our department. It also features the commendable contributions of our faculty members and the best practices that continue to elevate the standards of Civil Engineering education.

I extend my heartfelt congratulations to all the students and faculty of the Civil Engineering Department for their dedication and collaborative effort in bringing out this newsletter. May it continue to inspire excellence and strengthen our academic community.

## **Vision and Mission of the Institution**

### **Vision**

To become a globally recognized, value-driven educational institution committed to excellence in delivering quality education, nurturing students' inherent talents, and developing innovative professionals in technical and managerial fields, thereby equipping them to meet the future challenges of the global economy.

### **Mission**

- M<sub>1</sub>:** To deliver quality education through effective teaching–learning processes that foster academic excellence in technical and managerial disciplines.
- M<sub>2</sub>:** To nurture students' inherent talents by encouraging creativity, critical thinking, innovation, and lifelong learning.
- M<sub>3</sub>:** To develop competent and ethical professionals with strong values, leadership skills, and social responsibility.
- M<sub>4</sub>:** To promote industry-oriented learning and research through collaboration, practical exposure, and adoption of emerging technologies.
- M<sub>5</sub>:** To prepare globally competitive graduates capable of adapting to evolving challenges and contributing effectively to the global economy.

## **Vision & Mission of Department of Civil Engineering**

### **Vision**

To emerge as a center of excellence in civil engineering education, delivering globally relevant knowledge and developing ethically strong engineers dedicated to building the nation.

### **Mission**

M1: To provide strong foundational and advanced knowledge in civil engineering and technology through effective teaching–learning processes.

M2: To inculcate ethical values and professional responsibility among students to develop socially responsible engineers.

M3: To promote practical learning and industry interaction through fieldwork, internships, and real-world projects.

M4: To encourage innovation, research, and sustainable engineering practices addressing global and societal needs.

M5: To prepare competent civil engineers capable of contributing effectively to infrastructure development and national growth.

## **Program Outcomes (POs)**

- 1. Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- 2. Problem analysis:** Identify and analyses well-defined engineering problems using codified standard methods.
- 3. Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- 4. Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- 5. Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
- 6. Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
- 7. Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.

## **Program Educational Objectives**

**PEO1:** To impart science-based engineering education to develop professional skills that will prepare the students for immediate employment in relevant branch of civil engineering in industry.

**PEO2:** To develop human potential to its fullest extent so that intellectually capable and creatively gifted leaders can emerge in range of professions.

**PEO3:** To develops among students the awareness of and the competence to be savvy users of information technology.

**PEO4:** To develop among students the ability to work with others, in professional and social settings.

**PEO5:** To develop a global view among students so that they can appreciate diversity in the world and in intellectual pursuits and the desire and ability to keep learning throughout life.

## **Programme Specific Outcome**

**PSO1:** Apply principles of mechanics and basic sciences to analyze civil engineering structures. Survey, map, measure and analyze data for sustainable infrastructure planning.

**PSO2:** Ability to enhance research skills and utilize advanced computing tools for analysis, design and implementation of these systems for resolving real life / social problems.

**PSO3:** To prepare plan, drawings, estimates, reports and execute all Civil Engineering projects by applying modern construction techniques, equipments and software's which will equip them to complete the project in the stipulated time and cost.

## Awareness Programme for NBA Accreditation of Civil Engineering



An Awareness Programme on **NBA Accreditation** for the Civil Engineering Department was held on 03/08/2025 with the objective of familiarizing faculty members and students with the accreditation process and its significance in quality assurance. The session was conducted by Dr. Debasis Pani, Associate Professor, Gandhi Institute of Advanced Computer and Research.

Dr. Pani elaborated on the guidelines and evaluation criteria of the National Board of Accreditation, emphasizing Outcome-Based Education (OBE), Programme Outcomes (POs), Programme Specific Outcomes (PSOs), course attainment, and continuous improvement mechanisms. He highlighted the importance of systematic documentation, assessment tools, and stakeholder feedback in achieving and sustaining accreditation standards.

The session also covered the roles and responsibilities of faculty and students in maintaining academic quality, enhancing research activities, and strengthening industry interaction. Participants gained a clear understanding of the accreditation framework and its impact on institutional reputation and student career prospects.

The programme was informative and motivating, encouraging active participation and collective effort towards achieving successful NBA accreditation for the department.

## Technical Talk on Advanced Transportation Engineering



The Department of Civil Engineering, GIACR Rayagada, organized a Technical Talk on “Advanced Transportation Engineering” on 8th August 2025 at 11:00 AM in the Seminar Hall of the Civil Engineering Department. The programme was conducted with the objective of enhancing students’ understanding of modern developments and emerging technologies in the field of transportation engineering.

The session was delivered by Dr. P. Dinakar, Professor, Department of Civil Engineering, Aditya Institute of Technology and Management (AITAM), Srikakulam. Dr. Dinakar elaborated on recent advancements in pavement design, traffic engineering, and sustainable transportation systems. He highlighted the importance of intelligent transportation systems (ITS), smart traffic management, and the integration of data analytics in improving road safety and efficiency.

During the lecture, practical examples and case studies were presented to help students understand real-world challenges in highway construction and urban transportation planning. The interactive session encouraged students to raise questions and clarify their doubts regarding modern construction techniques and research opportunities in the transportation sector.

Faculty members and students actively participated in the event. The talk proved to be highly informative and beneficial, enriching the technical knowledge of the participants and motivating them to explore advanced concepts in transportation engineering.

## Workshop on Sensitisation of National Education Policy 2020



A Workshop on Sensitisation of National Education Policy (NEP) 2020 was conducted on 10/07/2025 for faculty members and final year students of the Civil Engineering Department. The programme aimed to create awareness about the objectives and implementation strategies of the National Education Policy 2020.

The resource person, Dr. Bhabani Shankar Das, Professor, Department of Education, Ugratara College, delivered an enlightening lecture on the key features of NEP 2020, including multidisciplinary learning, academic flexibility, skill-based education, outcome-based curriculum, and integration of technology in teaching–learning processes. He also explained the multiple entry-exit system, credit transfer mechanism, and the importance of research and innovation in higher education.

The session was interactive and informative, helping participants understand the practical implications of NEP in technical education. The workshop encouraged both faculty and students to adapt to the evolving educational framework and contribute effectively to its successful implementation.

## Independence Day Celebration



Independence Day was celebrated with great enthusiasm and patriotic fervour on 15/08/2025 at Gandhi Institute of Advanced Computer and Research. The programme commenced with the ceremonial hoisting of the National Flag by Dr. Pratap Chandra Mishra, Principal of the institute. The event was attended by faculty members, staff, and students who gathered to pay tribute to the freedom fighters and honour the spirit of the nation.

After the flag hoisting, the National Anthem was sung collectively, creating an atmosphere of unity and pride. In his address, Dr. Mishra highlighted the significance of Independence Day and encouraged students to contribute responsibly towards the nation's development through knowledge, integrity, and innovation.

The celebration continued with a vibrant cultural programme organized by the students. Patriotic songs, speeches, and cultural performances reflected the rich heritage and unity in diversity of India. The enthusiastic participation of students added colour and meaning to the occasion.

The programme concluded with a vote of thanks, reinforcing the message of patriotism, unity, and commitment to national progress.

## Orientation Programme for Freshers



The Orientation Programme for freshers was held on 20/08/2025 with great enthusiasm and warmth at Gandhi Institute of Advanced Computer and Research. The programme aimed to welcome the newly admitted students and familiarize them with the academic environment, institutional policies, and campus facilities.

The event began with a formal meeting where faculty members introduced themselves and briefed the students about the curriculum, academic regulations, examination system, and co-curricular activities. The importance of discipline, attendance, and active participation in departmental activities was also highlighted.

Following the formal session, a vibrant cultural programme was organized by senior students to extend a cordial welcome to the freshers. The performances created a friendly and interactive atmosphere, helping the newcomers feel comfortable and connected.

The programme concluded with a lunch arrangement for all participants, encouraging bonding and interaction among students and faculty members, marking a memorable beginning to their academic journey.

## Blood Donation Camp



A Blood Donation Camp was organized at Gandhi Institute of Advanced Computer and Research on 25/08/2025 with the objective of promoting social responsibility and humanitarian values among students and staff. The event witnessed active and enthusiastic participation from the students of the Civil Engineering Department, who voluntarily came forward to donate blood for this noble cause.

The camp was conducted under proper medical supervision, ensuring safety and hygiene throughout the process. Faculty members and volunteers coordinated effectively to facilitate smooth registration and donation procedures. The initiative received an encouraging response, reflecting the students' sense of service and commitment towards society.

A total of 37 units of blood were successfully collected during the camp. The programme not only contributed to saving lives but also created awareness about the importance of regular blood donation. The event concluded with appreciation for all donors and organizers for making the camp a grand success.

## Cyber Safety Awareness Camp



Students of the Civil Engineering Department actively participated in the **Cyber Safety Awareness Camp** held on 02/11/2025 at Rayagada. The programme aimed to create awareness about responsible digital behaviour, cyber security practices, and the prevention of online fraud and cybercrime.

The camp commenced with an inaugural address by the Hon'ble Collector of Rayagada, who emphasized the importance of cyber hygiene, data protection, and responsible use of social media among youth. The address highlighted the growing challenges of cyber threats and the need for collective vigilance in the digital era.

Following the inaugural session, a mini marathon was organized to spread the message of cyber safety among the public. Students enthusiastically participated in the run, carrying placards and slogans promoting safe internet practices and digital responsibility.

The programme concluded with a delicious breakfast arranged for all participants, encouraging informal interaction and discussion. The event was both informative and engaging, strengthening awareness about cyber security and motivating students to become responsible digital citizens.

## Participation in Intercollege Sports



The students of the institute actively participated in the Inter-College Sports Meet held at MITS Engineering College on 14/12/2025. The event provided a valuable platform for students to showcase their athletic talents, sportsmanship, and team spirit while interacting with participants from different colleges.

The team was accompanied and guided by Prof. Manas Rout from the Department of Electrical and Electrical Engineering (EEE), who encouraged and supported the students throughout the event. His presence ensured proper coordination and boosted the morale of the participants.

Students competed enthusiastically in various sports events, demonstrating discipline, cooperation, and determination. Their active involvement reflected the institute's commitment to promoting physical fitness and holistic development alongside academic excellence.

The participation in the inter-college sports meet helped students build confidence, strengthen teamwork, and foster a spirit of healthy competition, making the event a memorable and enriching experience for all.

## Participation in Inaugural Day of Chaiti Festival



Students actively participated in the Inaugural Day of the Chaiti Festival at Maa Majhighariani Temple on 26/12/2025. The festival, which holds great cultural and spiritual significance in the region, witnessed enthusiastic involvement from students who joined the celebrations with devotion and energy.

The inaugural event began with the ceremonial collection of the sacred flame from the temple premises. The flame symbolized unity, faith, and the rich heritage of the community. Following this, students participated in a marathon organized as part of the celebration, carrying the flame from the temple to the GCD Ground, the main venue of the festival. The marathon created an atmosphere of excitement and collective spirit among participants and spectators alike.

The active involvement of students reflected their respect for local traditions and their commitment to community engagement. Their disciplined participation and spirited presence added vibrancy to the occasion. The event not only strengthened cultural awareness but also fostered unity, teamwork, and social responsibility among the students.