Department technical activities for the academic Year2023-24

S. No	Nameofthe event	Date	Totalno of participants	Noofvol unteers
1	Guest lecture on topic "Masonry Structures and Geopolymer concrete" by Dr.RadhaKrishnaProfessor& HOD of Civil Engineering, R.V.College of Engineering, Banglore, and Dr.N.P.Rajamane, Ex-CSIR-SERC, Founder and Former Head, Center for Advanced Concrete Research, SRMIST, Banglore.	04-08-2023	111students	2
2	Guest lecture on topic "Sustainable Development and the Role of Youth for Future Upkeeping" by Prof.K.Purushotham Reddy, Eminent Environmentalist & Academician, TECCI, Hyderabad and Sri.A.Mallikarjuna Reddy A.E. CPWD, Hyderabad**.**	21-08-2023	121students	2
3	Seminar on topic "Shell Structures"byMr. WarisMuzammel(RollNo. 239X1D2005)studyingM.Tech.	02-12-2023	57students	2
4	Seminar on topic "Folded Plate Structure" by Mr.J. Venkata Sai Preetham(Roll No. 239X1D2007), and "Global Warming it's Causes and Solutions" by Mr.B.HrudayaVikas(Roll No. 229X1A0166) studying III Sem B Sec.	02-12-2023	64students	2
5	Seminar on topic "Safety in Construction - Introduction" by Mr.D.StanlyDevaraj(Roll No. 229X1A0172) studying III SemB Sec.	16-12-2023	54students	2
6	Conducted a "General Quiz" by Mr.Sai Deepak(Roll No. 239X5A01B5) studying III SemA Sec.	16-12-2023	71students	2
7	Conducted a "General Quiz" by Ms.A.Meghana(Roll No. 239X5A01A5) studying III SemA Sec.	16-12-2023	45Students	2

S. No	Nameofthe event	Date	Totalno of participants	Noofvol unteers
8	Guest lecture on topic “Mathematical Modelling and Real Life Problems” by Dr.G.P.RajaSekhar,Professor, Department of Mathematics, IIT Kharagpur.	28-12-2023	96 Students	2
9	Visited the stalls under “CDP Programme”1V Semester B.Tech.	24-02-2024	44Students	2
10	Seminar on a topic “Sound Engineering by logic Pro-X”byMr. S.HariPrasad(229X5A01E2) VI Semester B.Tech.	26-02-2024	49Students	2
11	Seminar on a topic “Upcoming Projects in the World”byMr. B.HrudayaVikas(229X1A0166) IV Semester B.Tech.	26-02-2024	49 students	2
12	Guest lecture on topic “GGBS for Strong, Durable, Sustainable & Green concrete Construction ”by Sri. K. RaghavaHariNarayana, area sales manager-AP, JSW Cement Ltd.	29-02-2024	240 students	6
13	Seminar on a topic “Green Building”byMr. G.SaiDeepak(229X1A01B5) IV Semester B.Tech.	02-03-2024	57 students	-
14	Seminar on a topic “Total Station and its applications”byMr. G.Nagesh Kumar, Sr. Assistant Professor.	04-03-2024	45 students	2
15	Seminar on a topic “Total Station Experimental Procedures”by Sri. G.Nagesh Kumar, Sr. Assistant Professor.	11-03-2024	39 students	-
16	Conducted Dumb charades&Seminar on the topic “Megalith 2024 in IIT Kharagpur”byMr. Y. Narasimha (219X1A01B3) of VI SemesterB Sec B.Tech..	16-03-2024	57 students	-
17	Seminar on a topic “Trimble Total Station Experimental Procedures”byMr. G.Nagesh Kumar, Sr. Assistant Professor.	18-03-2024	46 Studetns	

S. No	Nameofthe event	Date	Totalno of participants	Noofvol unteers
18	Seminar on a topic “Smart Note Taker”byMs. Banda Jyothi(229X1A0101) IV Semester B.Tech.	02-03-2024	59 Students	2
19	Seminar on a topic “Global Warming”byMr. G.SaiDeepak(229X1A01B5) IV Semester B.Tech.	30-03-2024	37 Students	1
20	Seminar on a topic “Global Positing System (GPS)”by Mr. G.Nagesh Kumar, Assistant Professor CED .	01-04-2024	45 Students	-
21	A event on a topic “Guess the Logo”byMr. P.Chaitanya(229X1A0107) 1V Semester B.Tech.	06-04-2024	46 students	
22	A event on a topic “General Quiz”byMr.G.Sai Deepak (239X5A01B5) 1V Semester B.Tech.	26-04-2024	60 students	
23	Seminar on a topic “Drone Surveying”byMr. G.Nagesh Kumar, Assistant Professor CED.	29-04-2024	62 students	-
24	One day Industrial tour visit on “Palamuru-Rangareddy Lift Irrigation Scheme”	27-04-2024	34 students	2

Event No.: CAA/01

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department.

Name of the Activity: 1. Guest lecture on topic **"Masonry Structures and Geopolymer concrete"** by **Dr. Radha Krishna,** Professor& HOD of Civil Engineering, **R. V. College of Engineering, Bangalore.**

2. **Dr. N.P.Rajamane, Ex-CSIR-SERC, Founder and Former Head, Center for Advanced Concrete Research, SRMIST, Bangalore**.

Date and Time of Activity: 4th August 2023 from 11.30 a.m to 1.30 p.m. in Seminar Gallery-1, GPREC.

No of students & Faculty present: The total number of students participated were**111 No's** and Faculty **9 No's**.

Aim

The aim of this report is to explore and evaluate emerging technologies and processes in civilengineering,focusingonsustainableengineeringpractices,andmoderntechniquesthatenhancesafety,facilitymanagement,andfor infrastructuredevelopment.

Objectives

1. To investigate the processes involved in including Concrete mix design, execution, and safety protocols.
2. To explore sustainable and green engineering practices to minimize environmental impact. To analyzetheroleofdigitaltransformationandmodernengineeringtechniquesinimproving efficiency andproductivity.
3. To examine infrastructure trends and emerging technologies in civil engineering.
4. To propose innovative solutions for utilizing recycled materials in construction.

Description

Civilengineeringprocesseshaveevolvedsignificantlywithadvancedtechnologiesandsustainable practices. to create energy-efficient, eco-friendly designs. During the **execution process**, modern techniques such as modular construction.

Emerging technologies in engineering include **sustainable practices**, such as using self-healing concrete and renewable energy, and Infrastructure trends focus on smart cities and carbon-neutral solutions. The adoption of recycled materials, such as plastics and rubber, along with circular economy goals. These advancements not only improve project outcomes but

also support eco-friendly, cost-effective, and sustainable construction, addressing the needs of modern infrastructure while minimizing environmental impact.

Outcomes

1. Enhancedawarenessofsustainableandinnovativepracticesincivilengineering.
2. Promotionofeco-friendlymaterialsandtechniquestoreduceenvironmentaldegradation.
3. Formulationofcost-effectiveandsustainablesolutionsformoderninfrastructureneeds.

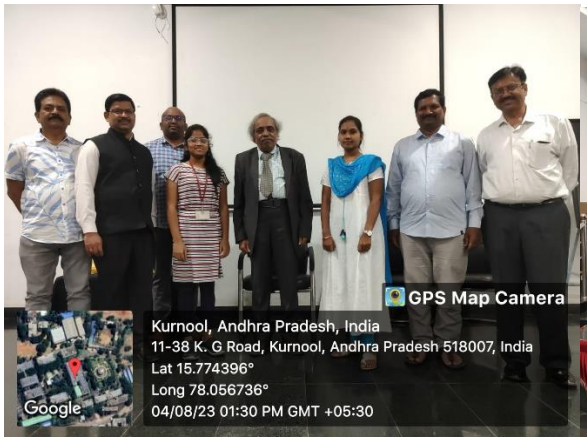
Results

1. Successfulimplementationofsustainableengineeringpracticesreducedcarbonfootprint sby20%.
2. Moderntechniqueslikeprefabricationreduced constructiontimelinesby40%.
3. Adoptionofrecycledmaterialsdecreasedrawmaterialcostsby25%.

Conclusion

The integration of emerging technologies and sustainable practices in civil engineering is crucial for addressing global challenges. By adopting transformation, eco-friendly solutions, and innovative techniques ,the industry can achieve greater efficiency, reduce costs, and contribute significantly to environmental conservation.

PHOTO'S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N. P. Rajamane PhD
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RV College of Engineering
Development of Geopolymer concrete and masonry
By
Dr. Radhakrishna
Professor and Head, Dept of Civil Engg
R V College of Engineering, Bangalore


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Event No: CAA/02

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department.

Name of the Activity: Guest lecture on topic **"Sustainable Development and the Role of Youth for Future Upkeeping" by Prof.K.Purushotham Reddy, Eminent Environmentalist & Academician, TECCI, Hyderabad and Sri.A.Mallikarjuna Reddy A.E. CPWD, Hyderabad**

Date and Time of Activity: 21st August2023 from 2.30 p.m to 4.30 p.m, in Seminar Gallery-1 of GPREC.

No of students &Faculty present: The total number of students participated were **121 No's** and Faculty **8 No's.**

Aim

Sustainable development is a framework that addresses the need to meet the demands of the present without compromising the ability of future generations to meet their own needs. It involves the balanced integration of economic growth, environmental protection, and social equity. With the world facing numerous challenges such as climate change, resource depletion, and social inequalities, the role of youth has never been more critical in ensuring a sustainable future.

Objectives

Understanding Sustainable Development

Sustainable development is not just about environmental protection; it is a comprehensive concept that includes three main pillars:

1. **Environmental Sustainability**: Protecting natural resources, reducing pollution, and mitigating the effects of climate change are key aspects. It requires adopting clean energy sources, conserving biodiversity, and using natural resources efficiently.
2. **Economic Sustainability**: Fostering a strong, resilient economy that generates wealth while ensuring equitable distribution is important. This involves promoting green technologies, responsible business practices, and supporting sustainable industries.
3. **Social Sustainability**: Ensuring that all individuals have access to basic needs such as education, healthcare, and economic opportunities. It also includes fostering social justice and equality, tackling poverty, and addressing disparities in society.

The Role of Youth in Sustainable Development

Youth today represent a dynamic force that can drive change and innovation, providing energy, creativity, and fresh perspectives on sustainable solutions. Their role in shaping a sustainable future is critical for the following reasons:

1. **Innovative Thinking and Technology**: Young people are often at the forefront of technological innovations, from clean energy solutions to environmental monitoring systems. They are more likely to embrace new technologies and advocate for their

widespread adoption. For example, youth-led initiatives in renewable energy, such as solar-powered projects, are transforming communities and industries.

2. **Advocacy and Awareness**: The youth can raise awareness about sustainability issues by using platforms like social media, protests, and campaigns. Figures like Greta Thunberg, who mobilized millions of young people around the world with her "Fridays for Future" movement, show how youth-led activism can influence public opinion, governments, and corporations to take stronger climate action.
3. **Sustainable Consumption**: Younger generations are becoming more conscious consumers, preferring products and services that are ethically sourced, environmentally friendly, and socially responsible. This trend pushes businesses to innovate and adopt sustainable practices in their operations.
4. **Policy Influence**: As the youth become more educated and politically engaged, they are better positioned to advocate for policies that address sustainability issues. By participating in local, national, and international discussions and decision-making processes, young people can influence the policies that govern environmental protection, economic development, and social welfare.
5. **Community Engagement**: Youth-led community projects often focus on sustainability, whether through organizing local clean-ups, promoting recycling, or working on urban farming projects. By actively engaging with local communities, they help to build a culture of sustainability at the grassroots level.

The Challenges Youth Face in Pursuing Sustainable Development

While youth have the potential to drive sustainable change, they face significant challenges that can limit their ability to contribute:

- **Lack of Access to Resources and Funding**: Many young people face barriers in accessing the resources needed to launch sustainable initiatives, whether in terms of financial support, mentorship, or networks.
- **Education and Awareness Gaps**: While many young people are passionate about sustainability, they may not always have the formal education or tools to understand the complexities of sustainable development. Expanding access to quality education in sustainability topics is crucial.
- **Political and Economic Barriers**: Youth movements often struggle to gain political traction, as decision-making power is largely held by older generations. Additionally, economic systems that prioritize short-term growth can be resistant to the long-term investments required for sustainability.

How to Empower Youth for Sustainable Development

To unlock the full potential of youth in contributing to sustainable development, several steps can be taken:

1. **Education and Skills Development**: Providing young people with education and training in sustainability-related fields is essential. This includes not only environmental sciences but also sustainable business practices, policy development, and community leadership.
2. **Promoting Youth Leadership**: Creating platforms for youth to take leadership roles in sustainability initiatives whether through government programs, NGOs, or local

community projects can help build the skills and confidence they need to make a lasting impact.

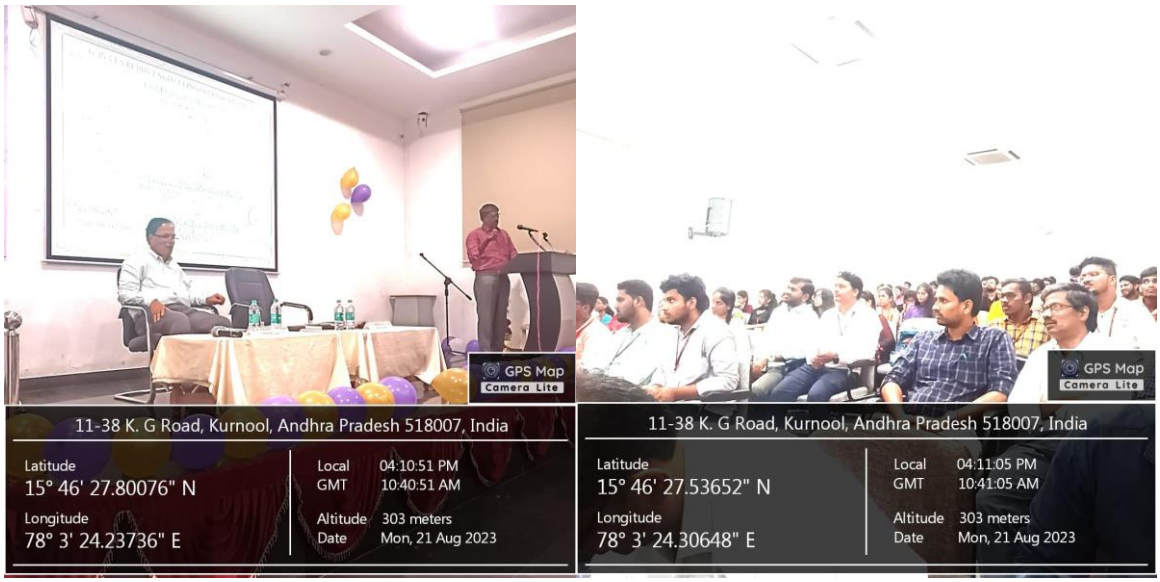
3. **Facilitating Collaboration**: Encouraging collaboration between youth and various stakeholders, including governments, businesses, and academic institutions, can create innovative solutions and increase the scale of sustainable initiatives.
4. **Providing Resources and Support**: Governments and international organizations should invest in youth-led sustainable projects by providing funding, resources, and networks that can help young people bring their ideas to life.
5. **Building Political Advocacy**: Empowering youth to engage in advocacy, through lobbying, policy-making processes, or environmental movements, can ensure their voices are heard and contribute to the creation of policies that promote sustainability.

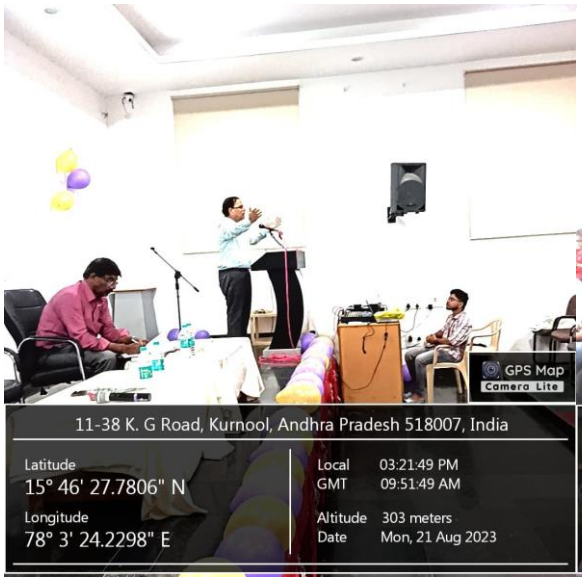
Conclusion

Sustainable development is a shared responsibility, and the role of youth in its realization cannot be overstated. By embracing innovation, advocating for change, and actively participating in both local and global sustainability efforts, young people are crucial to safeguarding the planet and ensuring a prosperous future. Supporting them in their endeavours through education, resources, and political engagement will enable them to continue driving the sustainable development agenda forward for future generations.

PHOTO'S

Guest Lecture on 21-08-2023 in Seminar Gallery –I from 2.30 to 4.30 p.m

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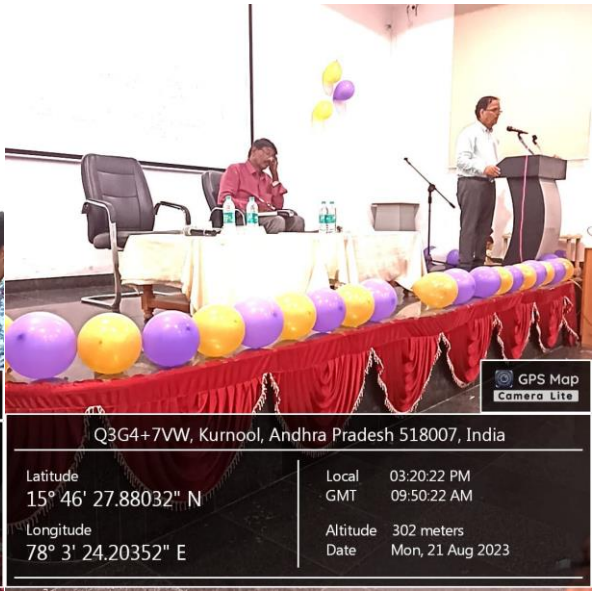
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Event No: CAA/03

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Shell Structures"**byMr. Waris Muzammel(Roll No. 239X1D2005)studying M.Tech.

Date and Time of Activity: 02-12-2023from 12.45pm - 1.45pm inCE3 of CED, GPREC.

No of students present:57 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 2 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor ,CED, & Ms. J. Sravani, Assistant Professor, CED.

Description of Event:

A seminar presented on the above topic, Shell structures are thin, curved structures designed to bear loads primarily through axial forces (compression or tension) and bending. They are often lightweight yet strong, providing efficient load distribution. Shell structures are widely used in architecture, civil engineering, and various fields of design due to their ability to cover large spans with minimal material usage.

Applications of Shell Structures: Buildings and Roofs, Bridges, Tanks and Silos, Geodesic Domes

Conclusion: Students understood a new structural application of shell structures.

Event No: CAA/04

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on topics**1.)"Folded Plate Structure" ,**
2.) "Global Warming it's Causes and Solutions"

Date and Time of Activity: 02-12-2023from 12.45pm - 1.45pm in CE4 of CED, GPREC.

No of students present: 64 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 2 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, CED, & 2. Dr. R. Sushmitha, Assistant Professor, CED.

Description of Event:

A seminar presented on the above two topics.

Topic 1.) **"Folded Plate Structure" :**A folded plate structure is a type of architectural and structural design that consists of a series of flat plates (or slabs) that are connected at angles to form a three-dimensional, folded shape. This design is often used to create strong and efficient roofs or ceilings, especially in buildings that require large spans and minimal supports.

Applications: Roof Structures, Bridges, Exhibition Halls and Airports.

Topic 2.) **"Global Warming it's Causes and Solutions" :**Global Warming refers to the gradual increase in Earth's average surface temperature due to the accumulation of greenhouse gases (GHGs) in the atmosphere. This phenomenon disrupts climate patterns and poses significant risks to ecosystems and human life.

Causes:Burning Fossil Fuels, Deforestation,Industrial Processes, Agriculture, Urbanization.
Solutions: Transition to Renewable Energy, A forestation and Reforestation, Energy Efficiency, Sustainable Agriculture,Policy and Awareness**.**

Conclusion: Students understood about the concept of "Folded Plate Structure" and importance of "Global Warming it's Causes and Solutions".

Event No: CAA/05

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Safety in Construction - Introduction"by Mr.D.Stanly Devaraj(Roll No. 229X1A0172) studying III Sem B Sec**

Date and Time of Activity: 16-12-2023from 12.45pm - 1.45pm inCE4 of CED, GPREC.

No of students present:54 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, CED

Description of Event:

Seminar on Safety in Construction- Introduction:Construction is one of the most dynamic and essential industries in the world, contributing to the creation of infrastructure, housing, and vital services. However, it also remains one of the most hazardous sectors due to the physical and often unpredictable nature of the work. Construction sites are known for their variety of risks, from falls and machinery accidents to exposure to harmful substances and environmental hazards.

Given the high number of injuries and fatalities in construction, ensuring safety on construction sites is not only a legal and ethical obligation but also a critical factor for efficiency, productivity, and reputation. A comprehensive approach to safety in construction involves proactive planning, proper training, adherence to safety regulations, and fostering a culture of safety at every level of the project.

Importance of Safety in Construction

1. Protecting Workers' Lives and Health: The primary focus of safety practices is to safeguard the well-being of construction workers, who are often exposed to dangerous working conditions. Workers' safety and health are directly impacted by how risks are managed on site.
2. Compliance with Legal Requirements: Regulatory agencies, such as the Occupational Safety and Health Administration (OSHA) in the U.S. or equivalent bodies worldwide, enforce strict safety standards. Non-compliance with safety regulations can result in legal penalties, fines, and shutdowns, as well as damage to a company's reputation.
3. Reducing Costs and Delays: Accidents and injuries can lead to costly workers' compensation claims, medical expenses, legal fees, and significant project delays. A robust safety program minimizes these risks, leading to smoother operations and fewer disruptions.
4. Enhancing Productivity: When workers feel safe, they are more likely to be productive, motivated, and focused on their tasks. A safe work environment promotes a positive attitude, teamwork, and better overall project performance.
5. Improving Project Quality: Safe practices often lead to better quality control. Ensuring that workers are not distracted or under physical or psychological stress from safety concerns helps maintain attention to detail and high standards of work.

Conclusion

Safety in construction is a multifaceted and ongoing process. It requires careful planning, continuous education, and a commitment to following regulations and best practices. By integrating safety into every stage of the construction process—from planning and design to execution and maintenance—companies not only protect workers but also ensure the successful, efficient, and timely completion of projects. A strong safety culture fosters a work environment where risks are actively managed, and workers can perform their tasks with confidence, leading to safer, more productive construction projects.

Event No: CAA/06

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: "General Quiz" by Mr.Sai Deepak(Roll No. 239X5A01B5) studying III Sem A Sec.

Date and Time of Activity: 16-12-2023 from 12.45pm - 1.45pm in CE3 of CED, GPREC.

No of students present: 71 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, CED

Description of Event:

A general quiz is a fun and engaging activity that tests participants' knowledge on a wide range of topics. These topics can include subjects like history, geography, science, pop culture, sports, literature, current events, and more. The quiz typically consists of a series of questions, each with multiple-choice or open-ended answers, designed to challenge both basic and advanced knowledge. General quizzes can be hosted in various settings, such as classrooms, team-building events, social gatherings, or online platforms. They are a great way to learn new facts, encourage friendly competition, and promote intellectual curiosity.

Conclusion:

Overall, the quiz serves as both a fun challenge and an opportunity for self-reflection on areas where knowledge can be expanded. Further quizzes can help address knowledge gaps and encourage continuous learning.

Event No: CAA/07

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Conducted a **"General Quiz" by Ms. A. Meghana (Roll No. 239X5A01A5) studying III Sem A Sec.**

Date and Time of Activity: 16-12-2023from 12.45pm - 1.45pm in CE4 of CED, GPREC.

No of students present:45 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, CED

Description of Event:

A general quiz is a fun and engaging activity that tests participants' knowledge on a wide range of topics. These topics can include subjects like history, geography, science, pop culture, sports, literature, current events, and more. The quiz typically consists of a series of questions, each with multiple-choice or open-ended answers, designed to challenge both basic and advanced knowledge. General quizzes can be hosted in various settings, such as classrooms, team-building events, social gatherings, or online platforms. They are a great way to learn new facts, encourage friendly competition, and promote intellectual curiosity.

Conclusion:

Overall, the quiz serves as both a fun challenge and an opportunity for self-reflection on areas where knowledge can be expanded. Further quizzes can help address knowledge gaps and encourage continuous learning.

Event No: CAA/08

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department.

Name of the Activity: Conducted a Guest lecture on topic **"Mathematical Modelling and Real Life Problems"** by **Dr.G.P.RajaSekhar, Professor**, Department of Mathematics, **IIT Kharagpur**.

Date and Time of Activity : 28thDecember 2023 from 2.15 to 3.30p.m in **Seminar Gallery-1**, GPREC.

No of students & Faculty present: The total number of students participated were **96 No's** and Faculty **13No's**.

Aim

The aim of mathematical modeling in real-life problems is to represent and analyze complex systems or phenomena using mathematical concepts and structures. Through mathematical models, we can gain insights, predict outcomes, and make informed decisions based on real-world data.

Objectives

The objectives of Mathematical Modelling and Real-Life Problems are centered around using mathematical tools and techniques to understand, analyze, and solve practical problems in various fields. Here are some key objectives:

1**.** Understanding Complex Real-World Systems: To develop a simplified mathematical representation of complex real-world systems or phenomena (e.g., in biology, economics, engineering, etc.).

2. Prediction and Forecasting: To make predictions about future events or outcomes based on current or past data using mathematical models.

3. Problem Solving: To solve real-life problems more effectively by formulating them mathematically and finding solutions using appropriate methods.

4. Quantification and Approximation: To quantify real-life situations and approximate real-world quantities through mathematical techniques.

5. Model Validation and Improvement: To validate mathematical models by comparing their predictions with real-world data and refine them if necessary.

6**.** Optimization and Efficiency: To optimize certain factors (e.g., cost, time, resources) in real-life situations, aiming for the most efficient or effective solution.

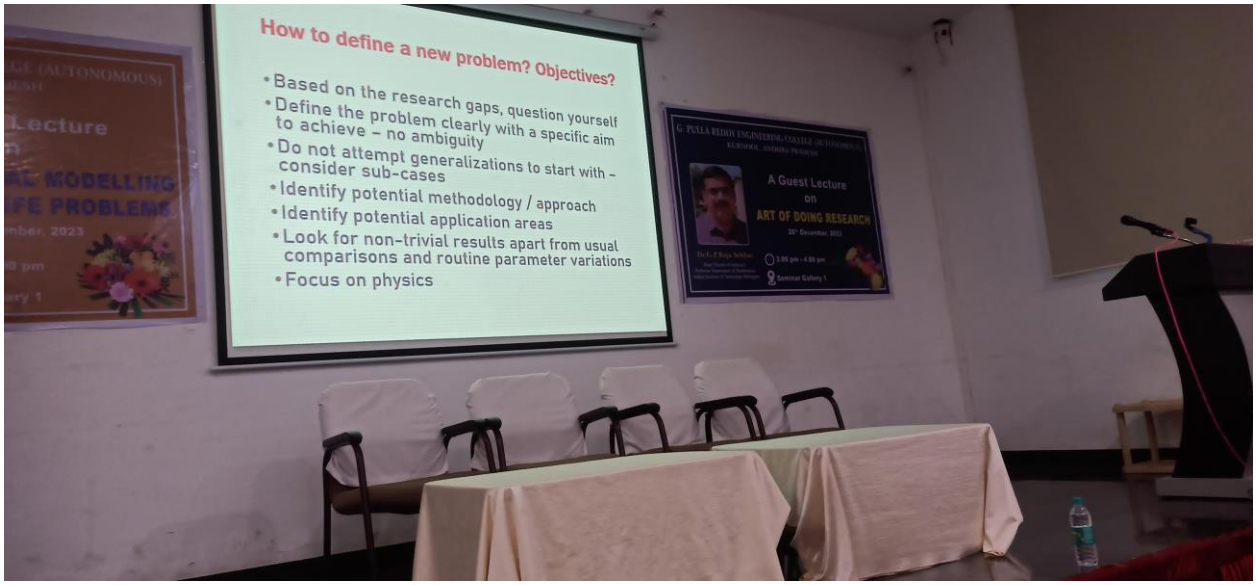
7. Educational and Conceptual Understanding: To improve the understanding of mathematical concepts by applying them to solve real-world problems, bridging the gap between theory and practice.

Conclusion

Mathematical modeling is a powerful tool that bridges the gap between abstract mathematical theories and practical real-world applications. By using models to understand and address real-life challenges, we can make informed decisions, optimize systems, and prepare for future scenarios. While they are not perfect and have limitations, the insights derived from mathematical models are invaluable across various sectors, making them indispensable in tackling complex problems.

PHOTO'S


A Guest Lecture
on
Mathematical modeling and real life problems


How to define a new problem? Objectives?
•Based on the research gaps, question yourself
•Define the problem clearly with a specific aim to achieve – no ambiguity
•Do not attempt generalizations to start with – consider sub-cases
•Identify potential methodology / approach
•Identify potential application areas
•Look for non-trivial results apart from usual comparisons and routine parameter variations
•Focus on physics
A Guest Lecture
on
ART OF DOING RESEARCH

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Date Thu, 28 Dec 2023

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Date Thu, 28 Dec 2023

.**Event No: CAA/09**

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Students visit to stalls under CDP Programme.**1**V Semester B.Tech. students.

Date and Time of Activity: 24th February 2024 from 12.45p.m to 1.45p.m.

No of students present: 44 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1No's of Faculty Sri.G. Nagesh Kumar, Sr. Assistant Professor,CED.

Aim

To provide students with practical exposure to industry practices, emerging technologies, and career opportunities through visits to various stalls organized under the Career Development Programme (CDP).

Objectives

1. **Enhance Industry Awareness**
   To familiarize students with the latest trends, technologies, and tools in the civil engineering industry.
2. **Skill Development**
   To introduce students to modern construction techniques, software tools, and sustainable practices.
3. **Career Guidance**
   To guide students on potential career paths, higher education options, and certifications relevant to civil engineering.
4. **Networking Opportunities**
   To provide a platform for students to interact with industry professionals, recruiters, and entrepreneurs.
5. **Practical Learning**
   To bridge the gap between academic knowledge and real-world applications by offering hands-on exposure to equipment, materials, and project demonstrations.

Conclusion

The visit to the stalls under the CDP programme provided civil engineering students with valuable insights into the professional world. It enhanced their understanding of industry expectations, introduced them to emerging technologies and career opportunities, and inspired them to align their academic learning with practical applications. This experience fostered confidence, encouraged curiosity, and prepared them for the challenges of the civil engineering field.

Event No: CAA/10

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on the topic **"Sound Engineering by logic Pro-X"by Mr. S.Hari Prasad(229X5A01E2) VI Semester B.Tech student.**

Date and Time of Activity: 26-02-2024 from **3.30 a.m to 4.30p.m in Lecture Hall CE-4, GPREC**.

No of students present:49 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, CED.

Description of Event:

Logic Pro X is a professional digital audio workstation (DAW) developed by Apple, widely used for sound engineering and music production. It offers a powerful suite of tools for recording, editing, mixing, and mastering audio with precision and creativity..
Importance of Safety in Construction

Key features include:

- **Advanced MIDI Capabilities:** Allows intricate programming of virtual instruments and dynamic control over arrangements.
- **Audio Editing Tools:** Offers features like Flex Time and Flex Pitch for precise adjustments to timing and pitch.
- **Mixing and Mastering:** Equipped with a vast library of plugins, EQs, and compressors for crafting polished mixes.
- **Virtual Instruments and Loops:** Provides an extensive library of sounds, loops, and instruments for diverse musical genres.
- **User-Friendly Interface:** Balances professional features with an intuitive design, making it suitable for beginners and seasoned engineers alike.

Sound engineers use Logic Pro X for various applications, from music production to sound design for films and games, ensuring high-quality results in any audio project.

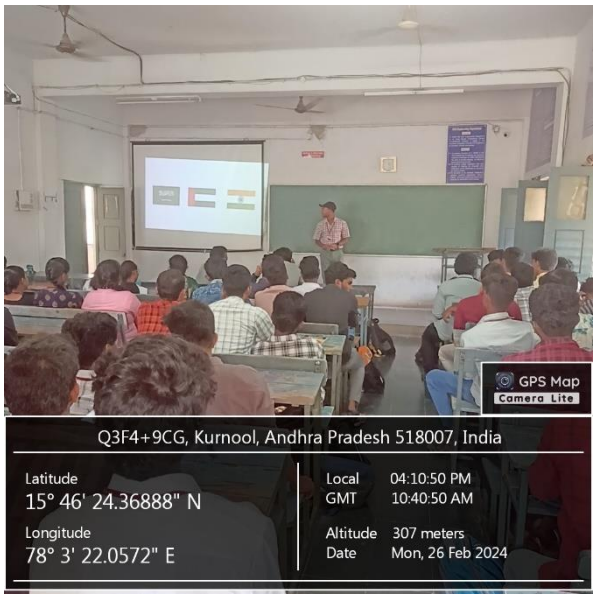
Conclusion :

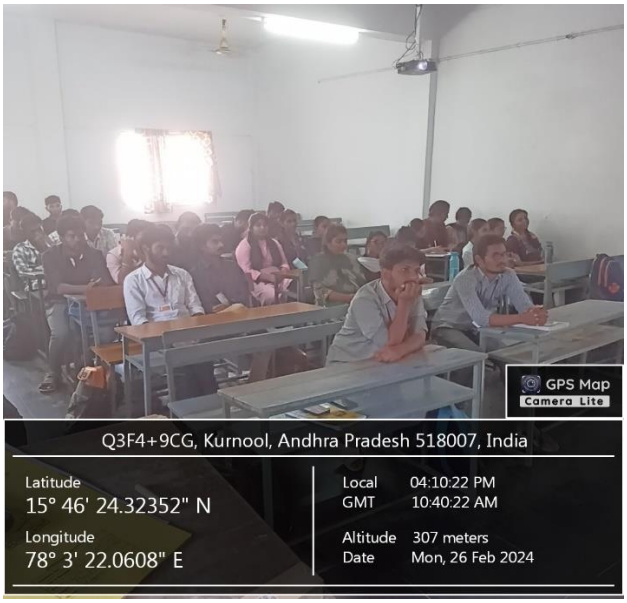
The seminar on "Sound Engineering with Logic Pro X" provided valuable insights into the capabilities and versatility of this powerful digital audio workstation. Participants gained a deeper understanding of its advanced tools for recording, editing, mixing, and mastering audio, along with practical knowledge of its intuitive interface and extensive sound libraries.

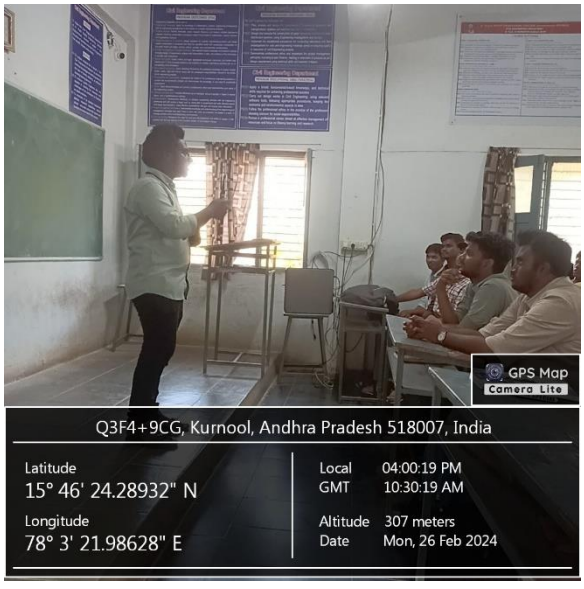
The session highlighted how Logic Pro X empowers sound engineers to produce professional-quality results efficiently and creatively. By combining technical demonstrations

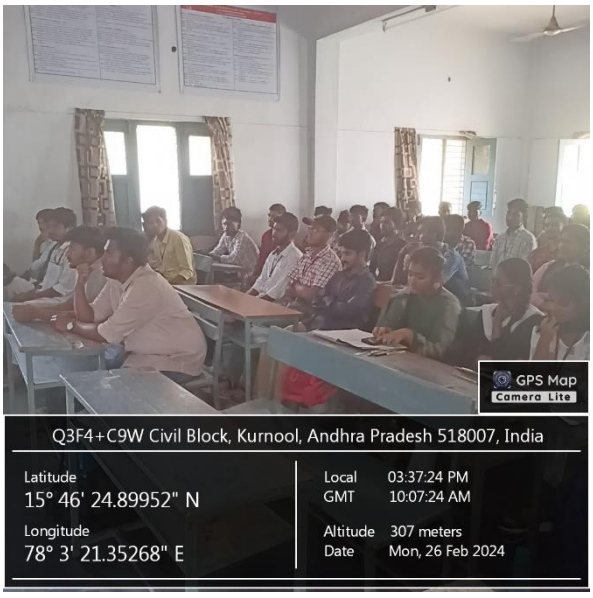
with real-world applications, the seminar successfully showcased the potential of Logic Pro X as an indispensable tool for music production and audio engineering.

Attendees left with enhanced skills and inspiration to explore the full potential of Logic Pro X in their audio projects, contributing to their growth as proficient sound engineers.









Event No: CAA/11

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on the topic **"Upcoming Projects in the World"byMr. B.HrudayaVikas(229X1A0166) 1V Semester B.Tech student.**

Date and Time of Activity: 26-02-2024 from **3.30 a.m to 4.30p.m in Lecture Hall CE-4, GPREC**.

No of students present: 49 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, CED

Description of Event:

The field of civil engineering is witnessing the development of groundbreaking projects worldwide, driven by technological advancements, sustainable practices, and urbanization demands. These projects aim to address global challenges such as climate resilience, efficient infrastructure, and smart city development.

Notable examples include:

- **NEOM (Saudi Arabia):** A futuristic city integrating cutting-edge technology and sustainable design.
- **The Line (Saudi Arabia):** A linear city focusing on minimal ecological impact and innovative urban planning.
- **High-Speed Rail Networks (Global):** Projects like California High-Speed Rail and Europe's TEN-T are revolutionizing transportation efficiency.
- **Flood Mitigation Systems (Netherlands):** Advanced dike systems and floating cities combat rising sea levels.
- **Smart Cities (Worldwide):** Developments in India, China, and Africa focus on integrating IoT and green infrastructure.

These projects not only showcase engineering excellence but also emphasize the importance of sustainable and innovative approaches in shaping the future of infrastructure globally.

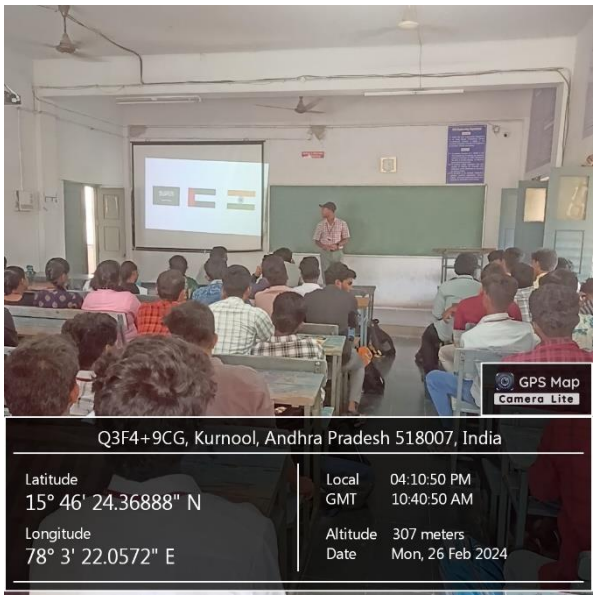
Conclusion :

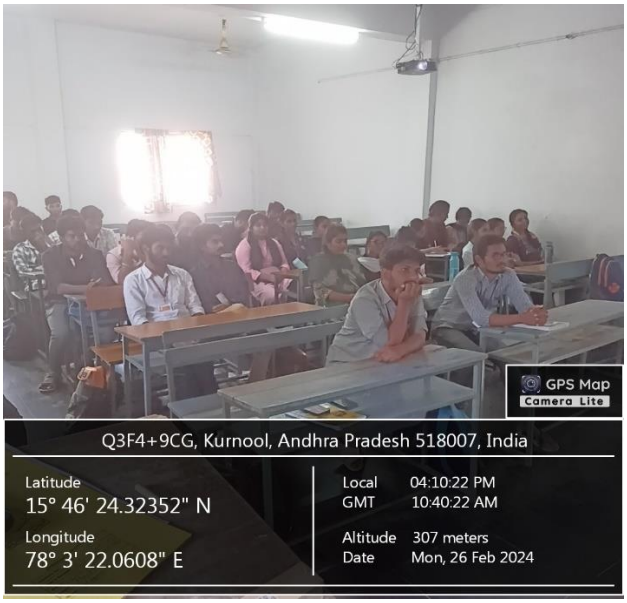
The seminar on "Upcoming Projects in the World" offered a comprehensive overview of innovative and transformative developments shaping the future of infrastructure. Participants explored landmark projects like NEOM, The Line, and advanced flood mitigation systems, highlighting how civil engineering integrates technology, sustainability, and visionary design.

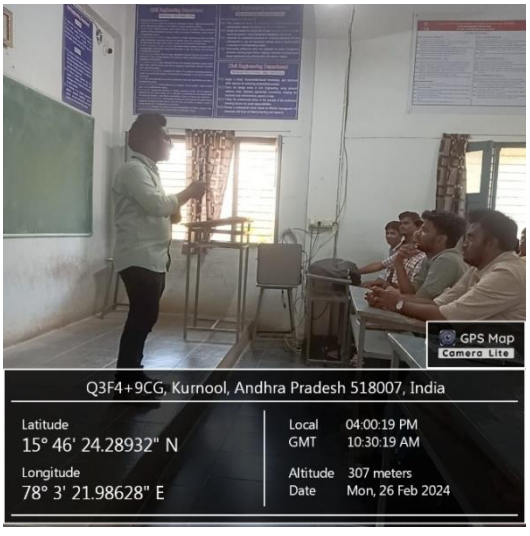
The discussions underscored the vital role of civil engineers in addressing global challenges such as urbanization, climate change, and resource management. Attendees gained valuable

insights into emerging trends, cutting-edge technologies, and the importance of sustainable practices in modern infrastructure development.

This seminar not only inspired students to envision a progressive future but also emphasized the responsibility of civil engineers in creating solutions that balance innovation with environmental stewardship.







Event No: CAA/12

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department.

Name of the Activity:"GGBS for Strong, Durable, Sustainable & Green concrete Construction"by Sri. K. RaghavaHariNarayana, area sales manager-AP, JSW Cement Ltd.

Date and Time of Activity:29th February 2024 from 11.30 a.m to 1.00p.m in

Seminar Gallery-2, GPREC

Details of Faculty coordinators:4 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor. 2. Dr.E.Sanjeeva Rayudu, Associate Professor, 3. Ms.J.Sravani, Assistant Professor. 4.Mr.M.Hemanth Kumar

No of students & Faculty present: The total number of students participated were **240 No's** and Faculty **15 No's**.

Aim:
The guest lecture aimed to educate participants on the significance of Ground Granulated Blast Furnace Slag (GGBS) as a supplementary cementitious material in concrete. The session focused on its role in enhancing the strength, durability, and sustainability of concrete while reducing the environmental impact of construction activities.

Objective:

1. To highlight the properties and benefits of GGBS in concrete construction.
2. To discuss its contribution to producing eco-friendly, green concrete.
3. To explore practical applications of GGBS in improving the lifecycle and performance of concrete structures.
4. To encourage sustainable practices in the construction industry through the use of alternative materials.

Conclusion:
The guest lecture successfully provided an in-depth understanding of GGBS as a sustainable and effective material for modern concrete construction. Participants learned about its ability to enhance strength and durability while reducing carbon emissions, aligning with green construction goals.

The session emphasized the importance of adopting GGBS and similar innovations to meet the demands of resilient and eco-friendly infrastructure. Attendees were inspired to integrate sustainable materials like GGBS into their practices, contributing to a greener and more durable future in construction.

PHOTO'S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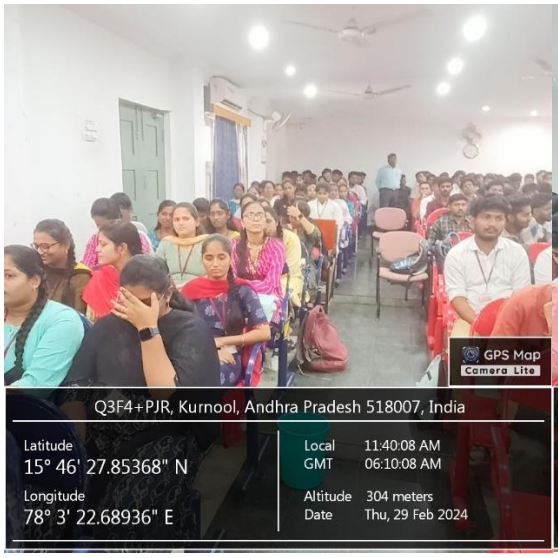
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Event No: CAA/13

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Green Building"**

Date and Time of Activity: 2nd March 2024 from 12.45 p.m to 1.45p.min **Lecture Hall CE-3**, GPREC
No of students present: 57 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor.

Description of Event:

A seminar presented on the above topic is Green Building by**Mr. G. Sai Deepak (229X1A01B5) I**V Semester B.Tech student were taught in the seminar. He gave the awareness on the Green building construction places and its practical applications.

Event No: CAA/14

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Total Station and its Applications"**

Date and Time of Activity: 4th March 2024 from 12.30 p.m to 1.15p.m in **Computer Lab of CED**, GPREC.

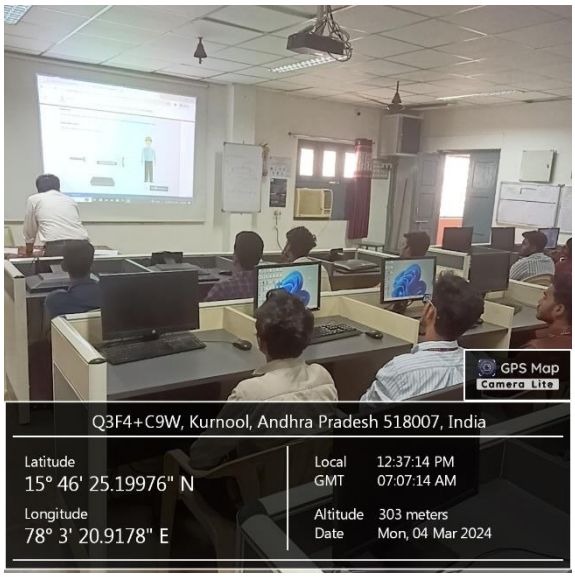
No of students present:45 No's

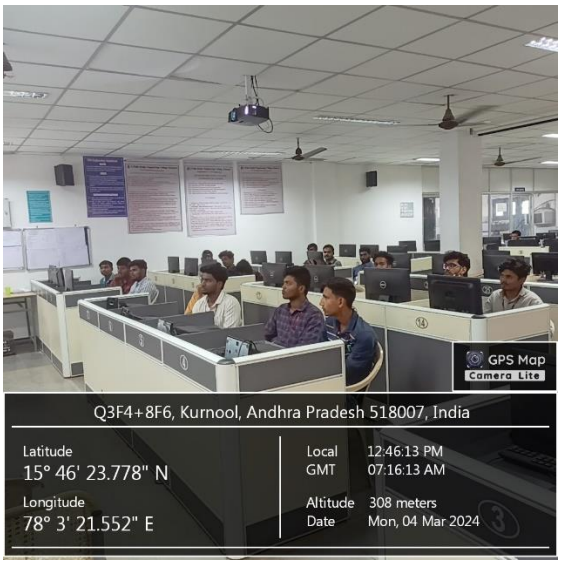
No of Volunteers: 2 No's (Members of IEI Students' chapter)

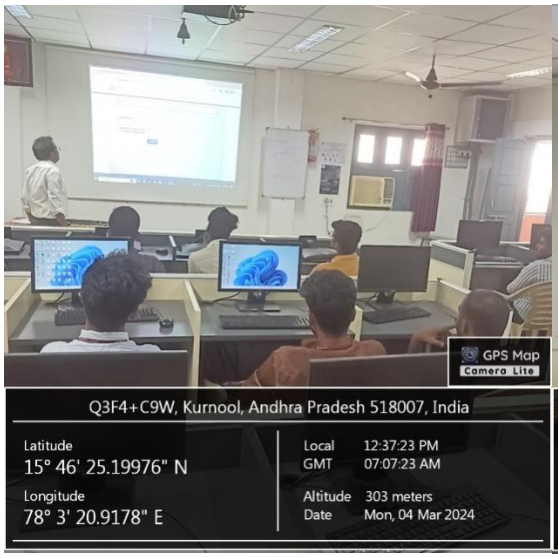
Details of Faculty coordinators:2 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, 2. Sri.V.K.Visweswara Rao, Assistant Professor.

Description of Event:

A seminar presented on the above topic, total station and its applications were taught in the seminar. The components and principle of working of total station Topcon &Trimble has been explained. Also, the Surveying application of Total Station were taught.







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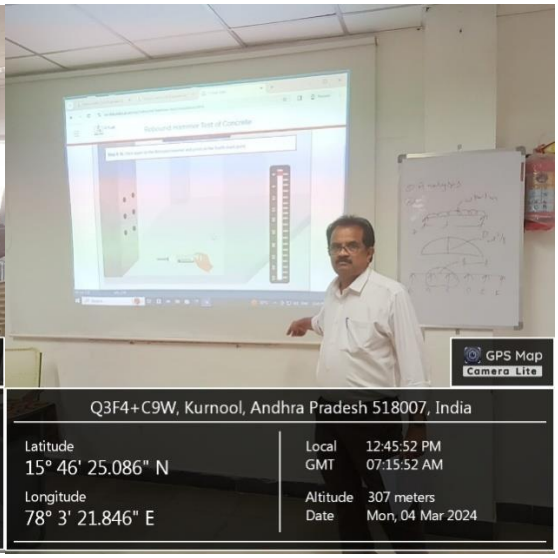

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Event No: CAA/15

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Total Station Experimental Procedures"**

Date and Time of Activity: 11th March 2024 from 3.30 a.m to 4.30p.m in **Lecture Hall CE-4**, GPREC.

No of students present: 39 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor.

Description of Event:

A seminar talk on the **Total Station Experimental Procedures is presented by the** by**Mr. G.Nagesh Kumar,** Sr. Assistant Professor in Civil Engineering GPREC. Sir had explained how to follow the step by step process of experiment in total station.

Event No: CAA/16

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Megalith 2024 in IIT Karagpur" and also conducted "Dumb charades"**

Date and Time of Activity: 16th March 2024 from 12.45 p.m to 1.45p.m in **Lecture Hall CE-3**, GPREC.
No of students present: 57 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1 No's of Faculty 1.Sri.Y.Yaswanth Kumar, Assistant Professor.

Description of Event:

The event on the seminar had gave **"Megalith 2024 in IIT Karagpur"** by **Mr. Y. Narasimha (219X1A01B3)** of VI SemesterB Sec B.Tech and also dumbshallards is the technical event.

Event No: CAA/17

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Total Station Experimental Procedures"**

Date and Time of Activity: 18th March 2024 from 3.30 a.m to 4.30p.m in **Lecture Hall CE-4**, GPREC

No of students present: 46 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor.

Description of Event:

A seminar presented on the above topic **"Trimble Total Station Experimental Procedures"**by**Mr. G.Nagesh Kumar, Sr. Assistant Professor. This session is advanced to the previous experimental procedure some of extension part.**

Event No: CAA/18

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Smart Note Taker"**

Date and Time of Activity: 2nd March 2024 from 12.45 p.m to 1.45p.m in **Lecture Hall CE-3**, GPREC.

No of students present: 59 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor.

Description of Event:
A seminar presented **"Smart Note Taker"** by**Ms. Banda Jyothi (229X1A0101) I**V Semester B.Tech. She had awareness on the topic to other students.

Event No: CAA/19

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Global Warming"**

Date and Time of Activity: 30th March 2024 from 12.45 p.m. to 1.45p.m in **Lecture Hall CE-3**, GPREC.

No of students present: 37 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor.

Description of Event:

A seminar presented on the above topic **"Global Warming"** by**Mr. G.Sai Deepak(229X1A01B5) I**V Semester B.Tech. He motivated to the students on Global Warming to have a protection to the environment from the human.

PHOTO'S

Event No: CAA/20

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Seminar on a topic **"Global Positing System (GPS)"**

Date and Time of Activity: 1st April 2024 from 12:30PM to 1:15PM in **Lecture Hall CE-4**, GPREC

No of students present:45 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators:1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor.

Description of Event:

A seminar presented on the above topic, which is the interesting topic that Global Positioning System. The working principle like satellite constellation, control segment i.e., ground control station and applications of user segment were taught in the seminar. The principle of working like trilaterlisation, ephemeris, etc., has been explained. Also the Surveying application of GPS and DGPS were taught.

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Event No: CAA/21

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Conducted aevent on the theme "Guess the Logo" by Mr. P.Chaitanya (229X1A0107) 1V Semester B.Tech student.

Date and Time of Activity: 6th April 2024 from 12:30 PM to 1:15 PM in Lecture Hall CE-3, GPREC.

No of students present: 46 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Sri. Y. Yashwanth, Assistant Professor, CED

Aim:
The event aimed to test and enhance students' visual recognition and branding awareness skills by challenging them to identify logos of various companies, organizations, and products. It also fostered creativity, team collaboration, and enthusiasm among participants.

Objective:

1. To promote awareness of corporate branding and its role in engineering and business.
2. To encourage participants to think critically and quickly identify well-known logos.
3. To provide a fun and engaging platform for students to showcase their knowledge and analytical skills.
4. To foster a competitive and collaborative spirit among engineering students.

Conclusion:
The "Guess the Logo" event successfully engaged students in a dynamic and entertaining activity while enhancing their brand recognition skills. The event encouraged teamwork, quick thinking, and a greater appreciation for the role of design and branding in industry.

Participants enjoyed the challenge, gained insights into the importance of visual identity in the corporate world, and left with a sense of accomplishment and increased interest in branding and creativity.


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Event No: CAA/22

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department

Name of the Activity: Conducted a "General Quiz" by Mr. G. Sai Deepak (239X5A01B5) 1V Semester B.Tech student.

Date and Time of Activity: 26thApril 2024 from 12:30 PM to 1:15 PM in Lecture Hall CE-3, GPREC.

No of students present: 60 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Dr. P. Lakshmi Sruthi, Assistant Professor, CED

Description of Event:

A general quiz is a fun and engaging activity that tests participants' knowledge on a wide range of topics. These topics can include subjects like history, geography, science, pop culture, sports, literature, current events, and more. The quiz typically consists of a series of questions, each with multiple-choice or open-ended answers, designed to challenge both basic and advanced knowledge. General quizzes can be hosted in various settings, such as classrooms, team-building events, social gatherings, or online platforms. They are a great way to learn new facts, encourage friendly competition, and promote intellectual curiosity.

Conclusion:

Overall, the quiz serves as both a fun challenge and an opportunity for self-reflection on areas where knowledge can be expanded. Further quizzes can help address knowledge gaps and encourage continuous learning.

Event No: CAA/23

Name of the CAA Chapter: IE(I) Students' Chapter of Civil Engineering Department.

Name of the Activity: Seminar on the topic **"Drone Surveying"** by Mr. G. Nagesh Kumar, Assistant Professor CED, GPREC.

Date and Time of Activity: 29th April 2024 from 12:30 PM to 1:15 PM in Lecture Hall CE-4, GPREC.

No of students present: 62 No's

No of Volunteers: 2 No's (Members of IEI Students' chapter)

Details of Faculty coordinators: 1 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, CED

Aim:
The seminar aimed to explore the advancements and applications of drone technology in surveying and mapping. It focused on showcasing how drones are transforming traditional surveying practices with enhanced accuracy, efficiency, and safety in diverse fields such as construction, agriculture, urban planning, and environmental monitoring.

Objective:

1. To introduce participants to the fundamentals of drone surveying and its technological components.
2. To demonstrate the advantages of drone surveying over conventional methods, including cost-effectiveness and precision.
3. To discuss real-world applications of drones in mapping terrain, monitoring construction sites, and gathering data for analysis.
4. To encourage the adoption of drone technology in engineering, surveying, and geospatial fields.

Conclusion:
The seminar on "Drone Surveying" effectively highlighted the revolutionary impact of drones on the surveying industry. Participants gained a comprehensive understanding of the technology, its operational techniques, and its diverse applications.

The session emphasized the benefits of drone surveying, such as reduced survey time, enhanced data quality, and safer operations, especially in challenging terrains. Attendees left the seminar equipped with valuable insights and inspiration to incorporate drone technology into their professional practices, driving innovation and efficiency in their respective fields.

AReportononedayIndustrialvisittoPalamuru–RangareddyLiftIrrigationScheme

Date: 30-04-2024

A team of 34 students from III B. Tech Civil Engineering of G. Pulla Reddy Engineering College (Autonomous), Kurnool, accompanied by three faculty members—Sri. Y. Yaswanth Kumar, Assistant Professor; Sri. K. Sudhakar Reddy, Assistant Professor; and N. G. Kalyani, Assistant Professor of the Civil Engineering Department—went on a technical tour to the Palumuru-Rangareddy Lift Irrigation Scheme on April 27, 2024.

A tour committee consisting of five student members was constituted to look after the various arrangements during the tour period. The student's committee members are:

1. S.V.Deepak(219X1A01A6)
2. G.NishadhBanu(219X1A0B4)
3. M.BallaHemanthKumar(219x1A0177)
4. M. GopalNaik(219X1A0181)
5. K. Tapasvi (219X1A0118)

The bus started at 5:30 AM on 27-04-2024 from the college and picked up students from different stopping points up to Bellary Chowrasta. From there, we began our journey and had breakfast. After that, we went to the Kurumurthyraya Reservoir.

In the morning session from 10:00 AM to 11:30AM, we spent time at the Kurumurthyraya Reservoir (4th Stage reservoir). Sri Vijendera Reddy, Deputy Executive Engineer of water Resources Department, Govt. of Telagana and his team explained the planning and design of the components, capacity of the reservoir (19 TMC), height of the bund(61m), and the linkage of water flow to the reservoir.

After completing our visit to the Kurumurthyraya Reservoir, we moved to the Karvena Reservoir. There, we received explanations about the reservoir's capacity, its components, different types of gates provided, and the regulation works.

In the afternoon session, after completing our visit to the Karvena Reservoir, we went to Jadcherla for lunch. We then moved to the Udandapur Reservoir and power house, where Sri Sameer Ismail AEE and his team explained the process of water flowing from the KarvenaReservoir to the Udandapur Reservoir, how the water is lifted and pumped to the Udandapur Reservoir, the pumping capacity, the storage capacity of water in the tunnel, and the construction of the tunnel.

The bus is started from Udandapurpump house premises at 6:00 PM to reach Kurnool. Students had finished dinner at Bhoothpur at 7:30 PM and reached Bellary Chowrasta, Kurnool by 9:00PM. Girls and Boys students residing at hostels were dropped safely at college hostels by 9:45 PM. \

Overall, the technical tour went smoothly and safely with good environment and climate without troubles and disturbances. During the tour students gained the valuable practical knowledge which is useful for better understanding of the subjects like Water Resources Engineering.

We herewith place on record our deep sense of gratitude to the authorities of WaterResourcesDepartment, Govt. of Telangana. We also sincerely thanks to our college management for providing a good technical tour trip for us which would stand as good memory. We also convey our thanks to the principal for providing this opportunity.

Sri.K.SudhakarReddy (AssistantProfessor)

N. G.Kalyani (AssistantProfessor)

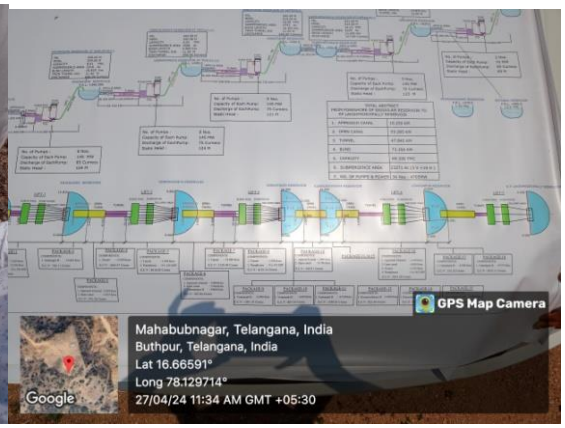
1. S.V.Deepak(219X1A01A6)
2. G.NishadhBanu(219X1A0B4)
3. M.BallaHemanthKumar(219x1A0177)
4. M. GopalNaik (219X1A0181)
5. K. Tapasvi (219X1A0118)

NOTE: Listof students who actually participated in the tour is enclosed in Annexure-I and the tour expenditure details are enclosed in Annexure-II

TourCo-ordinator:
SriY.YaswanthKumar
(AssistantProfessor) **HODCE**

PHOTO'S


GPS Map Camera
Mahabubnagar, Telangana, India
Buthpur, Telangana, India
Lat 16.665755°
Long 78.12976°
27/04/24 11:45 AM GMT +05:30
Google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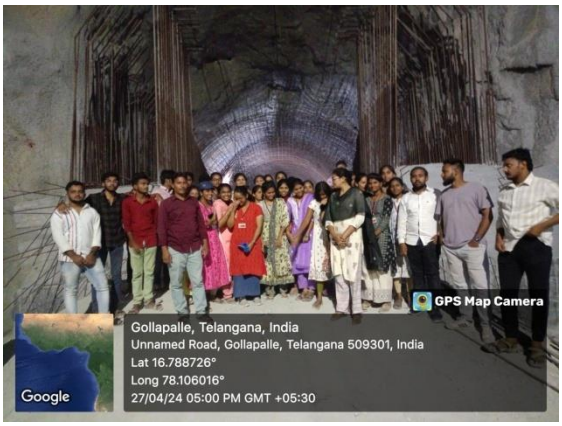
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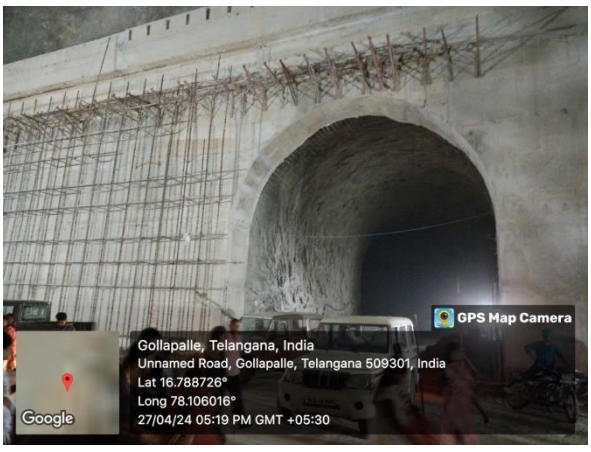
Google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Google