

Department technical activities for the academic Year2024-25

### **Events:**

1. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a Seminar on a topic “**Technical Quiz**” by **Mr. Y. Narasimha ( 219X1A01B3) VII sem A Section student of CED** on 5<sup>th</sup>September 2024 from 3:00PM to 3:50PM in Computer Lab of CED Block-1, GPREC. The total (18No’s) 6 batches (3 number of students per batch) participated.
2. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a event on a topic ‘**Poster presentation contest on ‘Sustainable Development’** by **IEI** , on 20<sup>th</sup>September 2024 from 3.00 PM to 3.30 PM in Lecture Hall CE-1, GPREC. The total number of students & faculty presented were 8 No’s and 4No’s

### **One day Technical Visit:**

3. The GPREC of Civil Engineering Department conducted a one day Technical visit on “**GNSS Head Regulator**” on 4<sup>th</sup>September 2024 to the VII semester ‘A’ section students. The total number of students participated were 58 and Faculty 3 No’s.

### **Events:**

4. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a “**Technical Treasure Hunt**” by VII & V semester students members (**9No’s**) of IE(I) chapter of CED on 08<sup>th</sup>October 2024 from 3:00PM onwards in SM and FM Lab of CED Block-1& 3, GPREC. The total (**32No’s**) 16 batches (two numbers of students per batch) participated. **4 No’s** of Faculty acted as coordinators Two batches were declared as Winners and Runners based on their competition time of the competition.
5. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a “**Video Presentation on topics 3D Priniting Technology Construction, Mega Structures and Canal Diversion**” on 16-10-2024 from 3 to 4 p.m in Computer lab of CED, GPREC by **Mr.D.Arunath(219X1A0152) & Ms.M.R.Mounika(219X1A0123)** of VII Semester CED. The total number of students participated were **33No’s** and Faculty **5 No’s**.
6. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a Seminar on a topic “**Knowledge Knockout (Image Quiz)**” by **Ms. K. Bhavana (229X1A0156), Ms.M.Bhavanewari(229X1A0106), Ms.T.Bhavana (229X1A0163)**, V semester students of CED on 18<sup>th</sup>October 2024 from 3:00PM to 4:00PM in Computer Lab of CED Block-1, GPREC. The total (26No’s) 10 batches (2 or 3 number of students per batch) participated.

### **Workshop:**

7. The GPREC of Civil Engineering Department conducted a one day Workshop on “**Advanced Surveying Techniques**” on 24<sup>th</sup>October 29, 2024 in CE-1 class room as a part of JIGNASA-2K24 to the students visited from other colleges and GPREC. Technical seminars on Advanced Surveying Techniques like E-Survey CAD, Total Station Surveying, Differential Global Positioning System and Drone Surveying were presented by Dr. E. Sanjeevarayudu, Associate Professor, Sri.G. Nagesh Kumar, Sr. Assistant Professor, Dr.K.Tharani, Assistant Professor and Sri.P.Eswanth, Assistant professor of CED, GPREC.The total number of students participated were 26 No’s and Faculty 4 No’s.

### **Paper Presentation(Outside the College):**

8. Four students of the CE Department in two batches were participated in **Paper Presentation** contest held in **Sri Rajeswari Institute of Technology (SRIT), Proddatur**, Kadapa Dist as a part of **TECHNOHOLIX-2K24** on 18<sup>th</sup> October, 2024. One batch won the **First Prize** (Cash Rs.2000/-) in Paper Presentation by **Mr.Syed Fazule E Moinuddin (219X1A01A8)** of VII sem B Section and **Mr.Fakkar Mohammed Fairoz (249X5A01C9)** of III sem B Section.

### **Event:**

09. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a “**Dumb Charades**” a technical event by III semester students of IE(I) chapter of CED 30<sup>th</sup> October, 2024 from 3:00 to 4.30 PM onwards in Computer Lab of CED Block-1, GPREC. The total (13No's) was participated. 2 No's of Faculty acted as coordinators.

### **Guest Lecture**

10. The GPREC of Civil Engineering Department conducted a Guest Lecture on “**Audit Perspective in Project Management**” Varun Paerakam, Manager, Risk Advisory, MNC, Hyderabad on 30<sup>th</sup> October, 2024 in SG-2 to the 3<sup>rd</sup> & 4<sup>th</sup> year students of GPREC. The Lecture discusses the critical role of internal auditing within construction projects, beginning with an overview of project management phases and the definition of internal auditing. It elaborates on the responsibilities of a technical auditor, focusing on risk-prone areas like contract management, project estimation, procurement, quality control, and safety. Additionally, a case study of a large Built-To-Suit (BTS) project is provided to illustrate real-world applications of auditing practices and their benefits. The presentation also outlines the standard operating procedures (SOPs) essential for maintaining compliance and enhancing governance across all stages of project management. This lecture also gave a detailed explanation of MOM, Microsoft project, primavera, AutoCAD, Staad Pro, the difference between GFC and Shop drawing about safety in construction. The total number of students participated were about 150 No's and Faculty 8 No's.

### **Events:**

11. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a “**Pictionary**” a non-technical event by III & V semester students of IE(I) chapter of CED on 1<sup>st</sup> November 2024 from 3:00 to 4.00 PM onwards in CE-2 class room of CED Block-1, GPREC. The total (14No's) 2 batches (boys & Girls) participated. 2 No's of Faculty acted as coordinators
12. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a Seminar on a topic “**Technical Quiz.**” The Civil technical quiz event conducted by III & V semester students of CED on 6<sup>th</sup> November 2024 from 3:00PM to 4:30PM in Computer Lab of CED Block-1, GPREC. The total (16No's) 8 batches (2 number of students per batch) participated and 4 no's Faculty Present.
13. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a Seminar on a topic “**Civil Brilliance and Unlocking Engineering Marvels.**” The Civil Brilliance and Unlocking Engineering Marvels is a technical quiz event conducted by III & V semester students of CED on 8<sup>th</sup> November 2024 from 3:00PM to 4:00PM in CE-2 of CED Block-1, GPREC. The total (16No's) 8 batches (2 number of students per batch) participated.

### **Guest Lecture**

14. The GPREC of Civil Engineering Department conducted a Guest Lecture on “**Latest Technologies in Civil Engineering**” on 9<sup>th</sup> November, 2024 in SG-2 to the 3<sup>rd</sup> & 4<sup>th</sup> year students of GPREC. Topics discussed include Emerging technologies in engineering including sustainable practices, such as using self- healing concrete and renewable energy, and digital transformation, leveraging AI and cloud- based platforms for decision-making and collaboration. Modern techniques like drones for surveying and prefabrication enhance efficiency. Infrastructure trends focus on smart cities and carbon-neutral solutions, while green infrastructure emphasizes stormwater management and biophilic designs. The adoption of recycled materials, such as plastics and rubber, aligns 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. The total number of students participated were about 195 No's and Faculty 12 No's.

### **Guest Lecture**

15. The GPREC of Civil Engineering Department conducted a Guest **Lecture "Internship Opportunities and Carrier Guidance"** on 9<sup>th</sup> December, 2024 in SG-1 by **Dr.M. Amaranatha Reddy, Professor, Department of Civil Engineering, IIT, Kharagpur** to the 4<sup>th</sup> year students of GPREC. Topics discussed include Core Branches of Civil Engineering, summer internship opportunities in IIT's and Universities abroad and how to express the mail to the concerned professors of respective specialization. , The total number of students participated were about 63 No's and Faculty 05 No's.

### **Events:**

16. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a **"Mega Structures video presentation"** on 20-12-2024, 3.30p.m to 4.30 p.m by Mr. F. Mohammed Fairoz Roll No. 249X5A01C9, Computer lab of CED Block-1, GPREC. The total 9 No's participated. 2 No's of Faculty acted as coordinators
17. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a **"Technical Quiz"** on 28-12-2024, , 3.30p.m to 4.30 p.m by Mr. F. Mohammed Fairoz, Roll No. 249X5A01C9 & Mr. K. Mohith Naik, Roll No. 249X5A01A9 in CE-4 of CED Block-2, GPREC. The total (12No's) 6 batches (2 number of students per batch) participated.
18. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a **"Technical Treasure Hunt"** on 03-01-2025, 3.30p.m to 4.30 p.m by Mr. F.Mohammed Fairoz Roll No. 249X5A01C9, FM Lab ECE Block-3, GPREC. (12No's) 6 batches (2 number of students per batch) participated.2 No's of Faculty acted as coordinators.
19. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a **"Awareness Program on NACC"** on 04-01-2025, , 11:00 AM to 12:40 PM by Dr. K.Devaki Devi, Dean Student's Affairs, GPREC in Seminar Gallery-2. The total no of students about 240 participated and two faculties acted as coordinators.
20. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a seminar **"Higher Education Opportunities in Civil Engineering"** on 18-01-2025, 11:00 AM to 12:40 PM by Sri. G. Nagesh Kumar, Sr. Assistant Professor of CED, GPREC in CE-3 of CED block-2. The total 68 no's students participated in Seminar.
21. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a quiz **"Pictoria Civil Engineering"** on 22-01-2025, 3:30 PM to 4:30PM for the students of IV semesters, by Mr. F.Mohammed Fairoz, Roll No. 249X5A01C9 & Mr. K. Mohith Naik, Roll No. 249X5A01A9, students of IV Sem, CED.. The total 9 No's participated. One Faculty acted as coordinator.

### 22. **Technical Visit:**

An industrial visit was organized by the Civil Engineering Department of G. Pulla Reddy Engineering College on **18th January 2025** to the **Tungabhadra Dam and Powerhouse**, located near Hospet, Karnataka. Five faculty members, one technician, and one attender facilitated 73 students in gaining practical exposure to the design, construction, and operation of a large multipurpose dam and its associated powerhouse.

### **Events:**

23. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a **"Awareness Program on Road Safety"** on 27-01-2025, , 02:30 PM to 4:40 PM by Regional Transport Authority official's in co-ordination with Dr. R.Susmitha and Sri.M. Hemanth Kumar Assistant

Professor of CED, GPREC in Auditorium. The total no of students about 120 participated and about 5 faculties are also present in the program.

24. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a **“Tech Draw( AutoCAD Contest)”** on 29-01-2025, 4.30p.m to 5.30 p.m by Mr. F. Mohammed Fairouz (249X5A01C9) & Ms.Ala Mamatha 249X5A01A3 of IV sem CED, in computer Lab of CED block-1, GPREC. About 16 members participated. 2 No’s of Faculty acted as coordinators
25. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a seminar **“Self Compacting Concrete ”** on 01-02-2025, 11:50 AM to 12:40 PM by Sri. G. Nagesh Kumar, Sr. Assistant Professor of CED, GPREC in CE-3 of CED block-2. The total 63 no’s students participated in Seminar of both IV A & B Section.
26. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a seminar on **“Advanced Topics in Civil Engineering ”** on 01-02-2025, 11:50 AM to 12:40 PM by Mr.F.Md.Firoz, (249X5A01C9) and Mr.Bala Tejeswarudu (249X5A01C6) of CED, GPREC in CE-3 of CED block-2. The total 63 no’s students participated in Seminar of both IV A & B Section.
27. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a seminar **“R.C.C.Elements”** on 15-02-2025, , 11:50 AM to 12:40 PM by Mr.K. Naga Sai Hitesh(249X5A01B0), IV sem A Section Student of CED, GPREC in CE-3 of CED block-2. The total 17 no’s students participated in Seminar, guided by Sri.M. Hemanth Kumar, Assistant Professor of CED.

**Event:**

28. The GPREC IE(I) Student Chapter of Civil Engineering Department conducted a awareness program on **“Resume Building”** on 06-03-2025, , 04:00 PM to 5:00 PM by Ms. Sai Sharshitha Reddy(239X1A05F8), Ms. K.V.Sahithi(239X1A0589) and Mr.Md. Tajamul Hussain(229X1A0185) in coordination with Dr. K. Tharani, Mr. P.Eswanth, Mr.M. Hemanth Kumar and Sri. G. Nagesh Kumar Sr. Assistant Professor of CED, GPREC in Computer Lab of Civil Engg. Department. The total no of students about 14 No’s participated and about 4 faculties are also present in the program.

Event No: CAA/01

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

**Name of the Activity: Technical Quiz.**

**Date and Time of Activity:** 05<sup>th</sup> September 2024 from 3:00P.M to 4:30 P.M

**No participated:** 18 No's

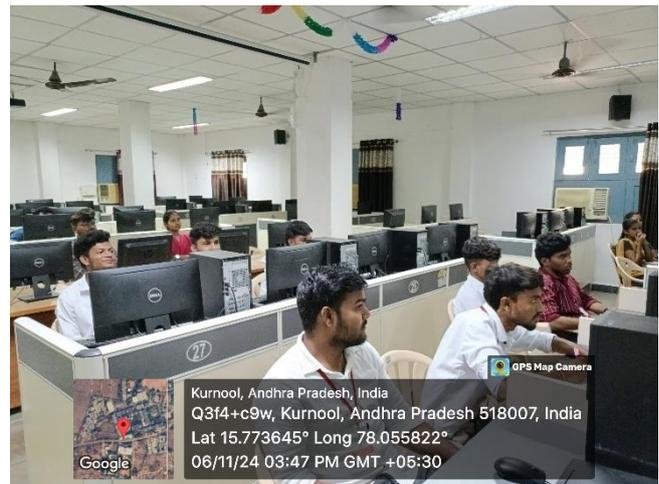
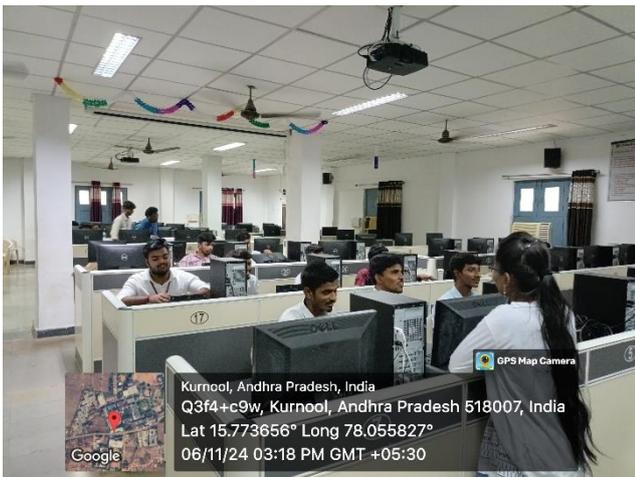
No of Volunteers: 2 No's (Members of IEI Students' chapter)

**Details of Faculty coordinators:**2 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, 2. Mr. E. Ganesh, Assistant Professor.

**Description of Event:**

The technical quiz event conducted in technically at Civil Computer lab. In this event,each team (3 members) had participated. The multiple-choice questions will be asked and the team members had to answer those multiple-choice question on subjects like Concrete Technology, Strength of Materials, Fluid Mechanics etc., About 18 no's in six batches from 2<sup>nd</sup> ,3<sup>rd</sup> & 4<sup>th</sup> year students participated.

**Photos**







## A Report on one day Field visit to Galeru Nagari Sujala Sravanthi (GNNS) Flood Flow Canal

**Date: 06-09-2024**

On 3rd September 2024, we obtained permission from Sri Varaprasad Garu, Superintendent Engineer of the GNNS Project, and discussed various aspects of the project. The following day, 4th September 2024, at 1:30 PM, a team of 61 students from IV B. Tech Civil Engineering at G. Pulla Reddy Engineering College (Autonomous), Kurnool, along with three faculty members—Dr. B.J.S. Varaprasad, Professor, Sri Y. Yaswanth Kumar, Assistant Professor, and Sri P. Manoj Kumar, Assistant Professor from the Civil Engineering Department—departed from the college by bus and visited the Drop Cum Cross Regulator, located 3 km along the G.N.S.S. Flow Canal in Panyam, Nandyal District.

During the visit, from 2:30 to 4:30 PM, Sri Nagaraja Garu, Deputy Executive Engineer, and Sri Ravi Kumar Garu, Assistant Executive Engineer, discussed various aspects regarding the channel transition, calculation of high floods, branches of the canal, and the challenges faced in managing the canal.

After completing the field visit, we began our journey back to the college, stopping for some refreshments along the way. Upon reaching the college, everyone dispersed to their respective places.



Tour/Field visit Co-ordinator :

Sri Y. Yaswanth Kumar

(Assistant Professor)

Sri. G. Nagesh Kumar

(Sr. Assistant Professor)

**Event No:** CAA/04

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

**Name of the Activity:** Technical Treasure Hunt

**Date and Time of Activity:** 08<sup>th</sup> October 2024 from 3:00P.M to 4.00 P.M

**No participated:** 32 No's (16 batches, two members in a batch)

**No of Volunteers:** 9 No's (Members of IEI Students' chapter)

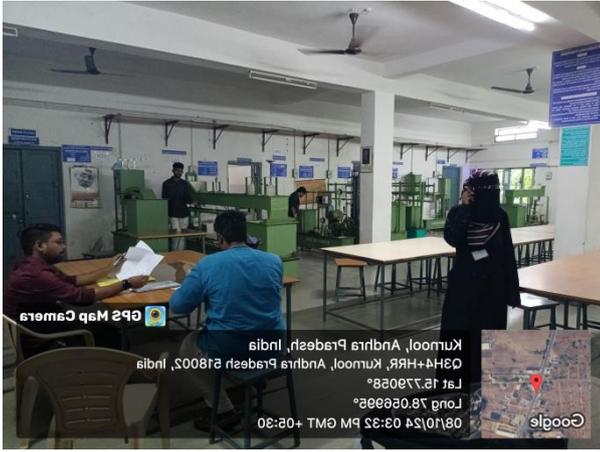
**Details of Faculty coordinators:** 4 No's of Faculty

1. Sri. G. Nagesh Kumar, Sr. Assistant Professor,
2. Sri. V. K. Visweswara Rao, Assistant Professor,
3. Ms. J. Sravani, Assistant Professor
4. Sri. E. Ganesh, Assistant professor.

### **Description of Event: Rules**

1. This is a team event with a team size of 2
2. This whole event will be conducted in the laboratory: Strength of materials lab and Fluid mechanics lab only.
3. In labs we (volunteers of IEI will hide envelopes that consist of questions that a contestant needs to answer).
4. The questions in the labs are placed irrespective of the subject. There is no rule that question belongs to the same lab. (They will be from all your subjects which you got in your curriculum)
5. All envelopes will be numbered (1 – 16), contestants should find the envelopes on which their team number is there, for example, you are Team-4 and you found an envelope with number 6 you are not authorized to destroy it by any means like misplacing it, throwing it away, tearing it, remember you are under surveillance of our volunteers, so please keep it in the place you have found if the envelope is not yours.
6. Any one of the teammates is required to say check in to the faculty who are present in the laboratory and that faculty will note your team number and at what time you have entered the lab and they will note at what time will you check out. You need to say check out and should leave the Lab.\*Note: you should never fail to say check-in and check out to faculty\*.
7. To answer the question you will be given three chances only after completion of 3 chances you need to check out of the lab. You can leave the lab at any time but once you exited the lab you will not be allowed to enter that lab again. If you think you can't answer the question you have the liberty to say check out and you can leave.
8. You will be judged on your time completely how fast you complete the event and how efficiently you answer the questions.
9. The whole event is only for 45 minutes, winners will be declared based their competition time earlier than stipulated and judgement by the coordinator faculty.

# Photos



**Event No:** CAA/05

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

**Name of the Activity:** Video Presentation on topics 3D Printing Technology Construction, Mega Structures and Canal Diversion

**Date and Time of Activity:** 16<sup>th</sup> October 2024 from 3:00P.M to 4.00 P.M

**No participated:** 31 No's

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

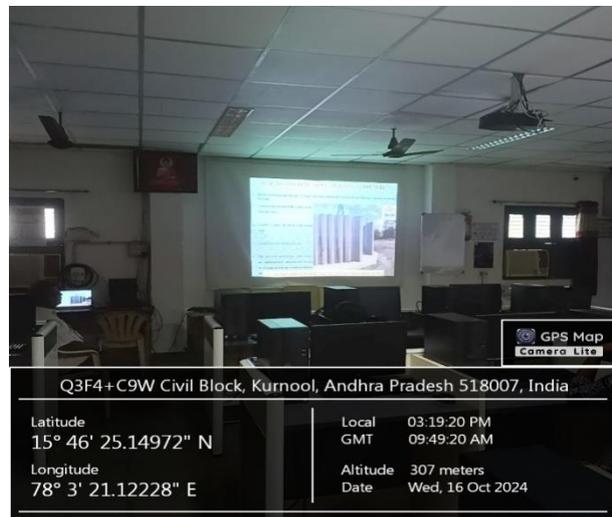
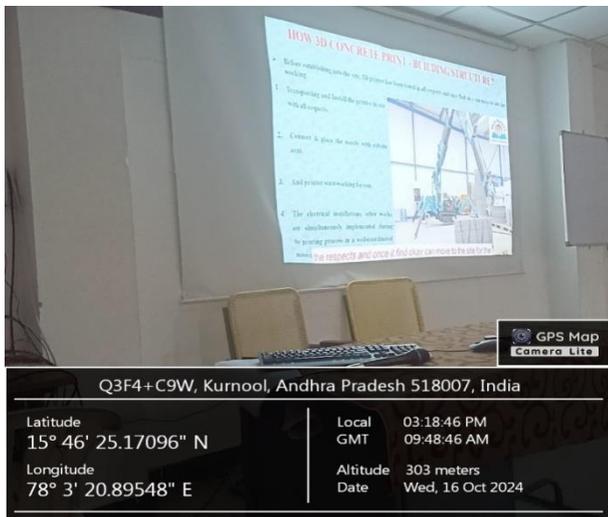
**Details of Faculty coordinators:** 5 No's of Faculty

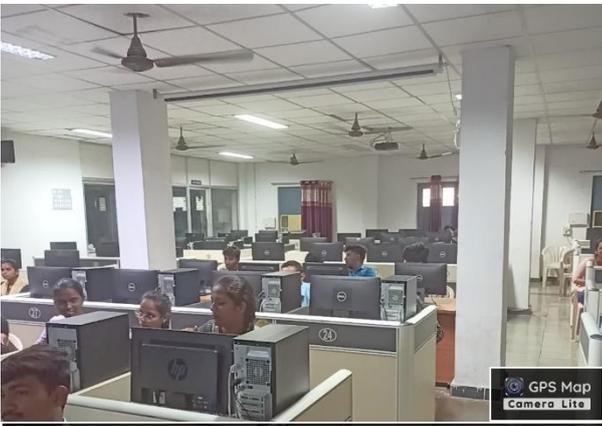
1. Sri.G. Nagesh Kumar, Sr. Assistant Professor
2. Dr.Soujanya, Assistant Professor
3. Ms. J.Sravani, Assistant Professor
4. Sri.E.Ganesh, Assistant professor
5. Sri.M. Hemanth Kumar, Assistant professor

### Description of Event

**Mr. D. Arunath** (219X1A0152) & **Ms. M. R. Mounika** (219X1A0123) of VII Semester CED are presented a Technical **“Video Presentation on topics 3D Printing Technology Construction, Mega Structures and Canal Diversion”** in Computer lab of CED, GPREC.

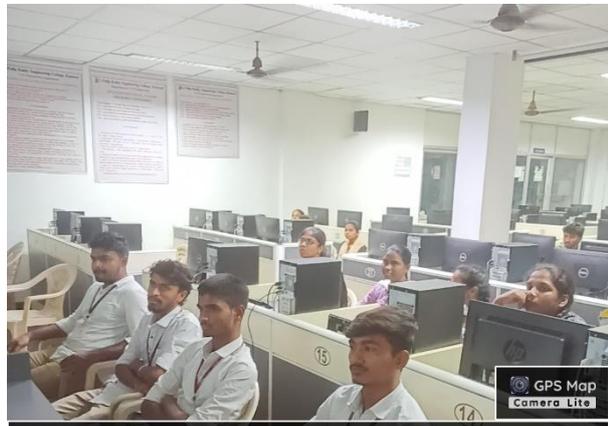
### PHOTOS





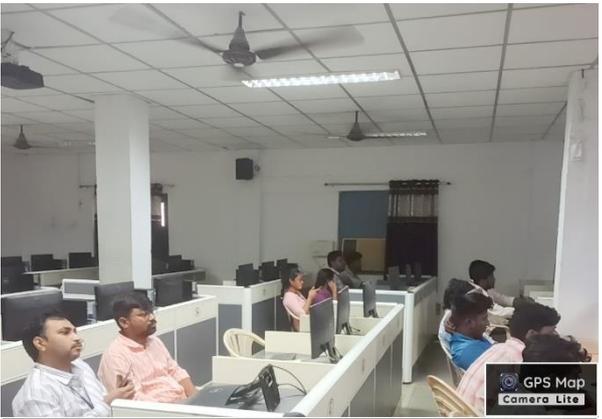
Q3F4+C9W Civil Block, Kurnool, Andhra Pradesh 518007, India

Latitude	Local	03:21:37 PM
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Longitude	Altitude	307 meters
78° 3' 21.0312" E	Date	Wed, 16 Oct 2024



Q3F4+C9W Civil Block, Kurnool, Andhra Pradesh 518007, India

Latitude	Local	03:21:43 PM
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Longitude	Altitude	307 meters
78° 3' 21.2292" E	Date	Wed, 16 Oct 2024



Q3F4+C9W, Kurnool, Andhra Pradesh 518007, India

Latitude	Local	03:36:24 PM
15° 46' 25.08996" N	GMT	10:06:24 AM
Longitude	Altitude	303 meters
78° 3' 20.89332" E	Date	Wed, 16 Oct 2024



Q3F4+C9W Civil Block, Kurnool, Andhra Pradesh 518007, India

Latitude	Local	03:36:44 PM
15° 46' 25.095" N	GMT	10:06:44 AM
Longitude	Altitude	307 meters
78° 3' 21.00564" E	Date	Wed, 16 Oct 2024

**Event No:** CAA/06

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

**Name of the Activity:** Knowledge Knockout (Image Quiz)

**Date and Time of Activity:** 18<sup>th</sup> October 2024 from 3:00P.M to 4.00 P.M

**No participated:** 26 No's (10 batches, two or three members in a batch)

**No of Volunteers:** 3 No's (Members of IEI Students' chapter)

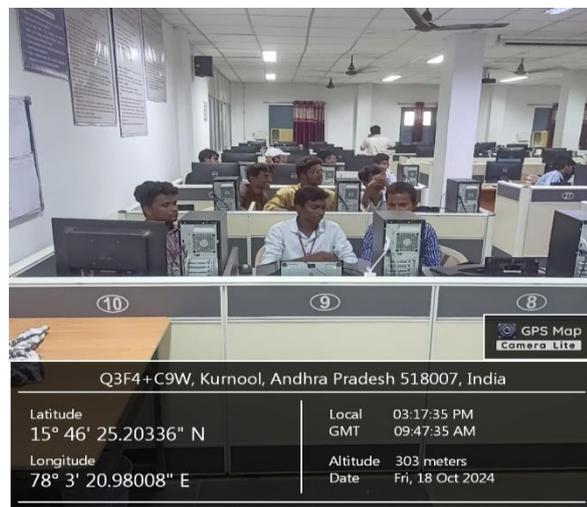
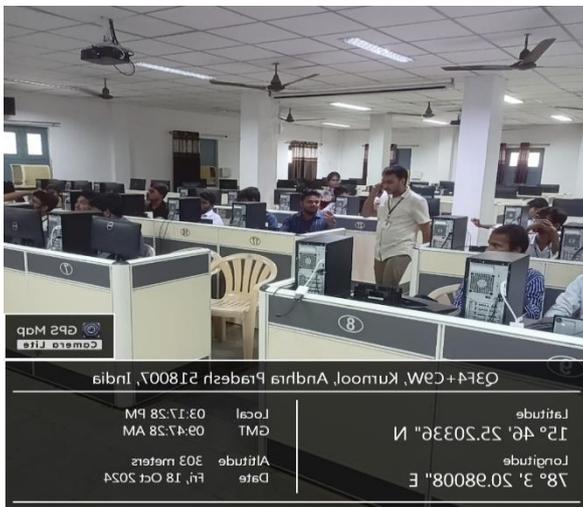
**Details of Faculty coordinators:** 4 No's of Faculty

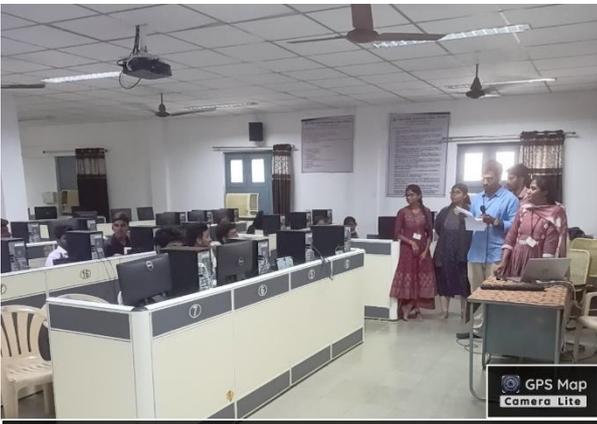
1. Sri. G. Nagesh Kumar, Sr. Assistant Professor
2. Sri. M. Hemanth Kumar, Assistant Professor
3. Ms. J. Sravani, Assistant Professor
4. Sri. E. Ganesh, Assistant professor

### Description of Event:

In this event Images related equipment/instruments used in the Civil Engineering laboratories were displayed through projector and each batch has to write down the answer on paper silently. At the end the volunteers evaluated with the key sheet the winners and Runners were declared. Awareness on the identification and usage of equipment/instruments used in Laboratory is the key take away from this Quiz.

### PHOTOS





GPS Map  
Camera Lite

Q3F4+C9W, Kurnool, Andhra Pradesh 518007, India

Latitude	Local	03:17:42 PM
15° 46' 25.20336" N	GMT	09:47:42 AM
Longitude	Altitude	303 meters
78° 3' 20.98008" E	Date	Fri, 18 Oct 2024



GPS Map  
Camera Lite

Q3F4+C9W, Kurnool, Andhra Pradesh 518007, India

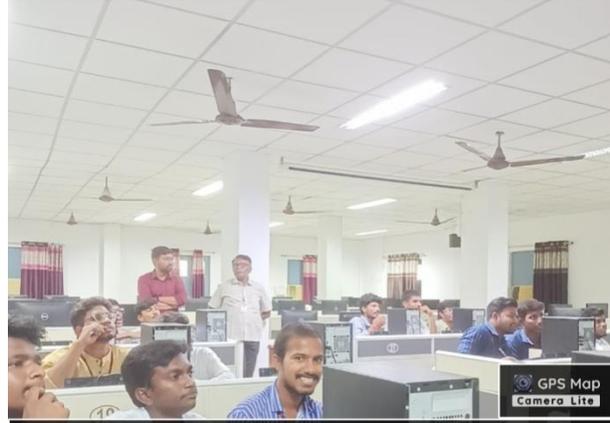
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Longitude	Altitude	303 meters
78° 3' 20.9256" E	Date	Fri, 18 Oct 2024



GPS Map  
Camera Lite

Q3F4+C9W, Kurnool, Andhra Pradesh 518007, India

Latitude	Local	03:20:13 PM
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Longitude	Altitude	303 meters
78° 3' 20.90088" E	Date	Fri, 18 Oct 2024



GPS Map  
Camera Lite

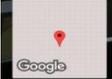
Q3F4+C9W, Kurnool, Andhra Pradesh 518007, India

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GPS Map Camera

Kurnool, Andhra Pradesh, India  
 Q3F4+C9W, Kurnool, Andhra Pradesh 518007, India  
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 18/10/24 03:29 PM GMT +05:30



**Event No:** CAA/07

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

**Name of the Activity:** Paper presentation Outside the College

**Date and Time of Activity:** 18<sup>th</sup> October 2024 A.N

**No participated:** 4 No's (two batches, two members in a batch) from CED, GPREC

**No of batches Win the Prize:** One Batch (Two Members of IEI Students' chapter) Win Cash Prize of 2000/-

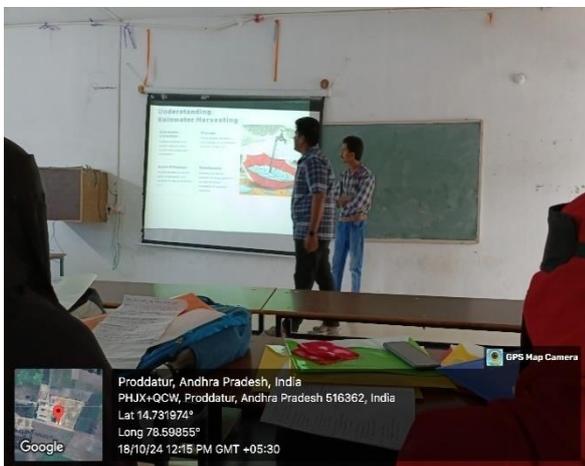
**Details of Faculty Guided:** 2 No's of Faculty

1. Sri. G. Nagesh Kumar, Sr. Assistant Professor
2. Dr. P. Lakshmi Sruthi, Assistant professor

### Description of Event:

Four students of the CE Department in two batches were participated in **Paper Presentation** contest held in **Sri Rajeswari Institute of Technology (SRIT), Proddatur, Kadapa Dist** as a part of **TECHNOHOLIX-2 K 24** on 18<sup>th</sup> October, 2024. One batch won the First Prize (Cash Rs.2000/-) in Paper Presentation by **Mr.SyedFazule E Moinuddin (219X1A01A8)** of VII sem B Section and **Mr.Fakkar Mohammed Fairoz (249X5A01C9)** of III sem B Section.

### PHOTOS





**Event No:** CAA/08

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

**Name of the Activity:** Workshop on Advanced Surveying Techniques

**Date and Time of Activity:** 24<sup>th</sup> October 2024 from 10:00P.M to 4.00 P.M

**No participated:** 25 No's

**No of Volunteers:** 3 No's (Members of IEI Students' chapter)

**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. Dr.K.Tharani, Assistant Professor
4. Sri. P. Eswanth, Assistant professor.

### **Description of Event:**

The above event “**Workshop on Advanced Surveying Techniques**” was conducted as a part of JIGNASA-2K24. Students from GPREC and other colleges are also present. In this event the following topics are taught to them:

1. Basics about Advanced Surveying Techniques were explained like principle of EDM.
2. TOPCON & TRIMBLE Total station are demonstrated in the seminar and simple experiments were done in the field.
3. Principle and working of DGPS (TOPCON) was demonstrated in the seminar and in the field.
4. Principle, working and application of Drone Surveying was demonstrated.





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GPS Map Camera

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Event No: CAA/09

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

**Name of the Activity: Dumb Charades**

**Date and Time of Activity:** 30<sup>th</sup> October 2024 from 3:00P.M to 4.30 P.M in Computer Lab of CE Department.

**No participated:** 13 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. M. Hemanth Kumar, Assistant Professor.

### **Description of Event: Rules**

The Dumb Charades is a monoact event conducted in technically. This is event conducted with an individual student in the Civil Computer Lab only. Each student had to collect the paper from the dip, the item name would inform clearly. The student has to perform without sharing the word name. The student audience will guess and inform the answers

### **Photos**



**Date:**30/10/2024

**Speaker:** Varun Paerakam, Manager, Risk Advisory, MNC, Hyderabad ([nanivarun10@gmail.com](mailto:nanivarun10@gmail.com))

**Aim:** To analyze and define the role of a technical auditor in construction projects, highlighting the importance of auditing in ensuring effective project management, risk mitigation, and compliance in construction.

**Objectives:**

1. To understand the phases of project management in construction and identify key audit functions at each phase.
2. To explain the audit process in construction, including internal auditing and standard operating procedures.
3. To identify common issues in construction project auditing, focusing on risk areas such as contracting, estimation, procurement, quality, and EHS (Environmental Health and Safety).
4. To demonstrate the impact of technical auditing through a case study, showcasing the benefits of audit interventions in project efficiency, cost savings, and compliance.

**Description:**

The Lecture discusses the critical role of internal auditing within construction projects, beginning with an overview of project management phases and the definition of internal auditing. It elaborates on the responsibilities of a technical auditor, focusing on risk-prone areas like contract management, project estimation, procurement, quality control, and safety. Additionally, a case study of a large Built-To-Suit (BTS) project is provided to illustrate real-world applications of auditing practices and their benefits. The presentation also outlines the standard operating procedures (SOPs) essential for maintaining compliance and enhancing governance across all stages of project management. This lecture also gave a detailed explanation of MOM, Microsoft project, primavera, AutoCAD, Staad Pro, the difference between GFC and Shop drawing about safety in construction

**Outcome:**

1. Enhanced understanding of the role of technical auditors and their contributions to construction project management.
2. Insights into practical challenges, risks in construction projects, and effective mitigation strategies.
3. Increased awareness of how auditing can improve project efficiency, enforce compliance, and reduce costs.
4. Practical frameworks and SOPs that serve as guidelines for auditors and project managers in maintaining high standards of quality, safety, and operational efficiency.

**Attended:** More than 150 students and 10 faculty

**Photos:**





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GPS Map Camera

Event No: CAA/11

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

**Name of the Activity: Pictionary.**

**Date and Time of Activity:** 01<sup>st</sup> November 2024 from 3:00P.M to 4:00 P.M in CE-2 Class room

**No participated:** 14 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. M. Hemanth Kumar, Assistant Professor.

### **Description of Event:**

The Pictionary event is a quiz on images conducted in non-technically at CE – 2 class room. In this event, 2 teams members (Boys and Girls) had participated. An image was drawn on the board and the students have to recognize and perform a song.

### **Photos**



Event No: CAA/12

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

**Name of the Activity: Technical Quiz.**

**Date and Time of Activity:** 06<sup>th</sup> November 2024 from 3:00P.M to 4:30 P.M

**No participated:** 18 No's

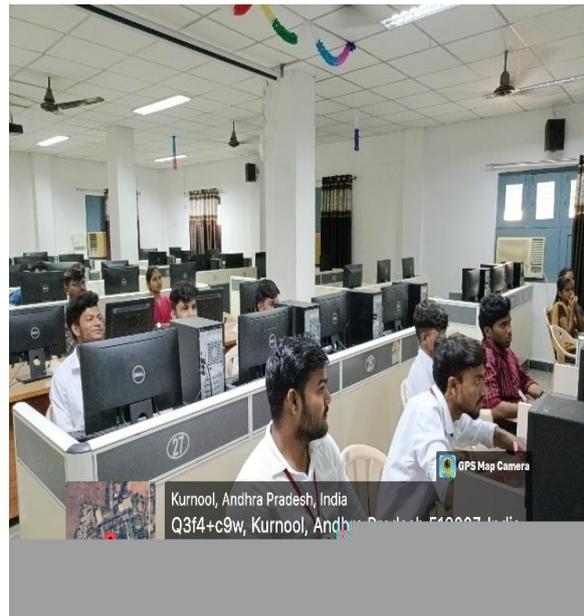
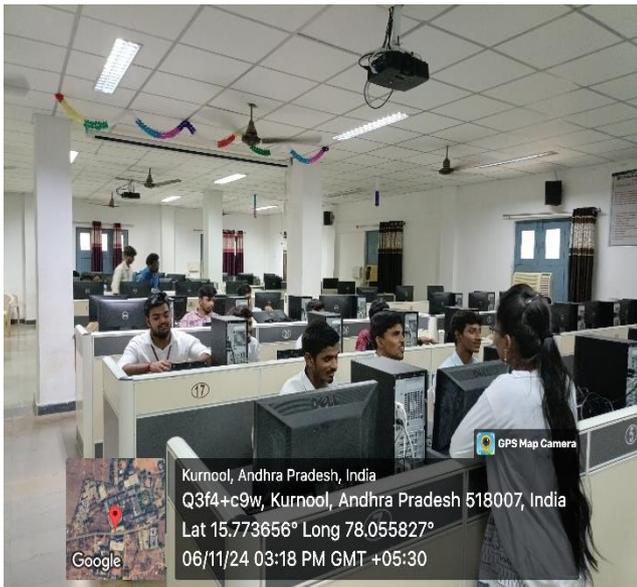
No of Volunteers: 2 No's (Members of IEI Students' chapter)

**Details of Faculty coordinators:**4 No's of Faculty 1.Sri.G. Nagesh Kumar, Sr. Assistant Professor, 2.Ms. J. Sravani, Assistant Professor, 3. Mr. E. Ganesh, Assistant Professor.

### **Description of Event: Rules**

The technical quiz event conducted in technically at Civil Computer lab. In this event,each team (2 members) had participated. The multiple-choice questions will display on projector and the team members had to answer those multiple-choice question.

### **Photos**



Event No: CAA/13

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

**Name of the Activity: Civil Brilliance and Unlocking Engineering Marvels.**

**Date and Time of Activity:** 08<sup>th</sup> November 2024 from 3:00P.M to 4:30 P.M, CE-2 Class Room

**No participated:** 16 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: Rules**

The Civil Brilliance and Unlocking Engineering Marvels is a technical quiz event conducted in technically at Civil Class room No;2. In this event, each team (2 members) had participated. The questions will displayed on projector and the team members had to answer the question.

### **Photos**



**Event No:** CAA/14

**Date:** 09/11/2024

**Speaker:** Ch. Ravi Kumar, Senior Faculty, National Academy of Construction(NAC), Hyderabad.

## Aim

The aim of this report is to explore and evaluate emerging technologies and processes in civil engineering, focusing on sustainable engineering practices, digital transformation, and modern techniques that enhance safety, facility management, and infrastructure development.

## Objectives

1. To investigate the processes involved in civil engineering, including design, execution, and safety protocols.
  2. To explore sustainable and green engineering practices to minimize environmental impact.
  3. To analyze the role of digital transformation and modern engineering techniques in improving efficiency and productivity.
  4. To examine infrastructure trends and emerging technologies in civil engineering.
  5. To propose innovative solutions for utilizing recycled materials in construction.
- 

## Description

Civil engineering processes have evolved significantly with advanced technologies and sustainable practices. The **investigation process** involves comprehensive site analysis, soil testing, and environmental impact assessments to identify project constraints and requirements for better planning. The **design process** incorporates tools like Building Information Modeling (BIM) to create energy-efficient, eco-friendly designs. During the **execution process**, modern techniques such as modular construction, 3D printing, and robotics ensure precision and efficiency. **Safety protocols** emphasize real-time monitoring through IoT-based devices and strict adherence to occupational safety standards. In **facility management**, smart technologies enable efficient building maintenance, while AI-driven tools predict and address issues proactively.

Emerging technologies in engineering include **sustainable practices**, such as using self-healing concrete and renewable energy, and **digital transformation**, leveraging AI and cloud-based platforms for decision-making and collaboration. **Modern techniques** like drones for surveying and prefabrication enhance efficiency. **Infrastructure trends** focus on smart cities

and carbon-neutral solutions, while **green infrastructure** emphasizes stormwater management and biophilic designs. The adoption of **recycled materials**, such as plastics and rubber, aligns 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. Enhanced awareness of sustainable and innovative practices in civil engineering.
  2. Improved understanding of the integration of digital technologies in the construction process.
  3. Identification of safety measures and protocols to ensure a secure working environment.
  4. Promotion of eco-friendly materials and techniques to reduce environmental degradation.
  5. Formulation of cost-effective and sustainable solutions for modern infrastructure needs.
- 

## Results

1. Successful implementation of sustainable engineering practices reduced carbon footprints by 20%.
  2. Use of digital tools like BIM improved design efficiency by 30%.
  3. Modern techniques like prefabrication reduced construction timelines by 40%.
  4. Adoption of recycled materials decreased raw material costs by 25%.
  5. Implementation of safety protocols led to a 15% reduction in workplace incidents.
- 

## Conclusion

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



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Date Sat, 09 Nov 2024



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Date Sat, 09 Nov 2024



MOU made between NAC Hyderabad and GPREC, Kurnool

**Event Name: 15. Guest Lecture “Internship Opportunities and Carrier Guidance” by Dr.M. Amaranatha Reddy, Professor, Department of Civil Engineering, IIT, Kharagpur.**

**Name of the cell and Forum/society (CAA)**

**IEI students’ Chapter, CE Department,  
GPREC**

**Date:** 9<sup>th</sup> December, 2024

**Event Type:** Guest Lecture

**Venue:** Seminar Gallery-1, GPREC

**Number of Participants:** 4<sup>th</sup> year students 63No’s  
and Faculty 05 No’s

**Objective:**

The objectives of a lecture titled "Career Opportunities and Core Branches of Engineering" by an IIT Civil Engineering professor would be focused on educating students about the wide array of career options in civil engineering and the significance of its core branches. The lecture aims to provide a comprehensive understanding of the field, preparing students for informed career choices. Below are the primary objectives for such a lecture:

### **1. To Introduce the Core Branches of Civil Engineering**

- **Objective:** Provide a clear overview of the key sub-disciplines within civil engineering, such as structural engineering, geotechnical engineering, transportation engineering, environmental engineering, water resources engineering, and construction management.
- **Purpose:** Help students understand the diversity within civil engineering and identify areas they might be interested in pursuing further.

### **2. To Highlight Career Opportunities in Civil Engineering**

- **Objective:** Showcase the various career paths available for civil engineering graduates, both within India and internationally.
  - **Public Sector:** Government jobs in infrastructure development, urban planning, and environmental management.
  - **Private Sector:** Opportunities with construction firms, consultancies, and multinational companies.
  - **Research and Academia:** Pursuing higher studies, research, and teaching positions in esteemed institutions.
  - **Entrepreneurship:** Starting engineering firms or working as consultants.
- **Purpose:** Make students aware of the broad spectrum of roles available to them and the flexibility in career choices within the civil engineering profession.

### **3. To Explain the Importance of Skill Development**

- **Objective:** Emphasize the technical and soft skills that are crucial for success in civil engineering careers.
  - **Technical Skills:** Proficiency in design software (e.g., AutoCAD, STAAD Pro), surveying equipment, and construction management tools.
  - **Soft Skills:** Communication, teamwork, leadership, problem-solving, and project management.
- **Purpose:** Equip students with the knowledge of how to improve their employability by honing both technical and interpersonal skills.

### **4. To Discuss Emerging Trends in Civil Engineering**

- **Objective:** Introduce students to current and future trends in civil engineering, such as:
  - **Sustainable Development:** Green buildings, environmental conservation, and renewable energy integration.
  - **Smart Cities:** Integration of technology (IoT, AI, big data) into urban infrastructure.
  - **Automation and Robotics:** Use of AI, drones, and robotics in construction, design, and site monitoring.

- **Purpose:** Inspire students to stay updated with the evolving industry and consider future technologies when planning their career paths.

#### 5. To Encourage Specialization in Civil Engineering

- **Objective:** Encourage students to explore and choose a specialization within civil engineering, based on their interests and strengths.
  - Examples of specializations could include earthquake engineering, transportation systems, or environmental impact assessments.
- **Purpose:** Guide students toward areas where they can excel and make meaningful contributions, while also understanding the importance of deep knowledge in a specific area for career growth.

#### 6. To Provide Guidance on Higher Education and Research Opportunities

- **Objective:** Inform students about the possibility of pursuing higher studies (M.Tech, Ph.D.) in civil engineering and related fields, including scholarships and fellowships.
- **Purpose:** Help students understand the value of advanced degrees in furthering their careers, particularly for those interested in research, innovation, and academia.

#### 7. To Offer Insights into Professional Development and Networking

- **Objective:** Stress the importance of networking, internships, professional certifications (e.g., LEED, PMP), and participation in professional organizations (e.g., ASCE, ISCE).
- **Purpose:** Help students build connections and continue their learning beyond the classroom to stay competitive in the field.

#### 8. To Motivate Students to Contribute to Society

- **Objective:** Emphasize the societal impact of civil engineering work, such as building infrastructure that improves quality of life, addresses environmental issues, and contributes to sustainable development.
- **Purpose:** Inspire students to pursue careers in civil engineering with a sense of purpose and social responsibility.

By the end of the lecture, students should have a solid understanding of the core branches of civil engineering, potential career paths, the necessary skills, and the current trends shaping the industry. The lecture would also serve to motivate and guide students in making informed decisions about their academic and professional futures.

#### Highlights:

**Dr.M. Amaranatha Reddy, Professor, Department of Civil Engineering, IIT, Kharagpur** present a lecture to the 4<sup>th</sup> year Civil Engineering students of GPREC. Topics discussed include Core Branches of Civil Engineering, summer internship opportunities in IIT's and Universities abroad and how to express the mail to the concerned professors of respective specialization.

#### Outcome:

The **outcomes** of the lecture titled "**Career Opportunities and Core Branches of Engineering**" by an IIT Civil Engineering professor would be centered on providing students with valuable insights and actionable knowledge that will help them navigate the world of civil engineering careers. Here are the expected outcomes from such a lecture:

##### 1. Clear Understanding of the Core Branches of Civil Engineering

- **Outcome:** Students will be able to identify and understand the different core branches of civil engineering (e.g., structural, geotechnical, transportation, environmental, water resources, and construction management). They will gain a deeper appreciation of how each

branch contributes to building infrastructure and improving the quality of life.

- **Impact:** Students will feel confident in choosing which sub-discipline aligns with their interests and career goals.

## 2. Awareness of Career Opportunities in Civil Engineering

- **Outcome:** Students will gain a comprehensive understanding of the wide variety of career paths available to civil engineering graduates. They will learn about:
  - Job opportunities in both public and private sectors.
  - Roles in construction firms, government agencies, consulting companies, and international organizations.
  - Career options in academia, research, and entrepreneurship.
- **Impact:** Students will be more informed about the multiple ways they can apply their skills, motivating them to explore diverse career options and make more strategic decisions regarding internships or job applications.

## 3. Insight into the Importance of Skill Development

- **Outcome:** Students will recognize the significance of developing both **technical skills** (e.g., proficiency in engineering software, design tools, surveying methods) and **soft skills** (e.g., communication, teamwork, project management) to excel in their careers.
- **Impact:** They will understand that a successful career in civil engineering requires continuous learning, skill enhancement, and a balanced approach to professional development.

## 4. Exposure to Emerging Trends and Technologies

- **Outcome:** Students will be informed about the latest trends in civil engineering, including sustainable construction practices, the rise of smart cities, automation, robotics, and the integration of AI and data analytics in infrastructure.
- **Impact:** They will be motivated to stay updated on technological advancements and consider these emerging trends when deciding on areas of specialization or career directions, leading to greater adaptability and foresight in their careers.

## 5. Understanding the Importance of Specialization

- **Outcome:** Students will learn about the benefits of specializing in a particular area of civil engineering and how it can improve job prospects and professional satisfaction.
- **Impact:** They will be encouraged to identify their areas of interest and explore opportunities for specialization (e.g., earthquake engineering, transportation systems, environmental sustainability), leading to more focused career planning.

## 6. Insight into Further Education and Research Opportunities

- **Outcome:** Students will gain knowledge about the options for pursuing higher studies (M.Tech, Ph.D.), along with potential scholarships and fellowships.
- **Impact:** They will be better equipped to make decisions about further education and research opportunities, understanding the benefits of advanced degrees in enhancing their career prospects.

## 7. Awareness of Professional Development and Networking

- **Outcome:** Students will recognize the importance of professional networking, attending conferences, joining engineering societies (like ASCE or ISCE), and earning certifications (e.g., LEED, PMP).
- **Impact:** Students will be encouraged to actively seek internships, work on real-world projects, and connect with industry professionals to build their professional network, increasing their employability.

## 8. Motivation to Contribute to Society through Civil Engineering

- **Outcome:** Students will appreciate the social impact of their work in civil engineering, particularly in building sustainable infrastructure, addressing environmental challenges, and

improving public welfare.

- **Impact:** They will be inspired to pursue careers that not only offer professional success but also contribute to solving real-world problems, giving them a sense of purpose and responsibility in their work.

### 9. Increased Confidence in Career Decision-Making

- **Outcome:** After attending the lecture, students will have a clear sense of direction regarding their career goals and the steps needed to achieve them.
- **Impact:** Students will feel empowered to make informed decisions about their future, whether it's selecting a specialization, pursuing higher education, or entering the job market.

### 10. Enhanced Perspective on Global and Local Engineering Challenges

- **Outcome:** Students will understand how civil engineering plays a vital role not only in local infrastructure projects but also in addressing global challenges like climate change, urbanization, and resource scarcity.

### Conclusion:

After attending this lecture, students will have:

- A clearer understanding of the diverse branches within civil engineering and their career implications.
- A deeper awareness of the current and future trends influencing the profession.
- The motivation and knowledge to pursue specialized areas, continuously develop skills, and explore global career opportunities.
- Enhanced confidence in making informed career decisions and contributing positively to society through their engineering expertise.

These outcomes will equip students with the insights they need to navigate the complexities of the civil engineering field and prepare them for successful, impactful careers.

### Photos



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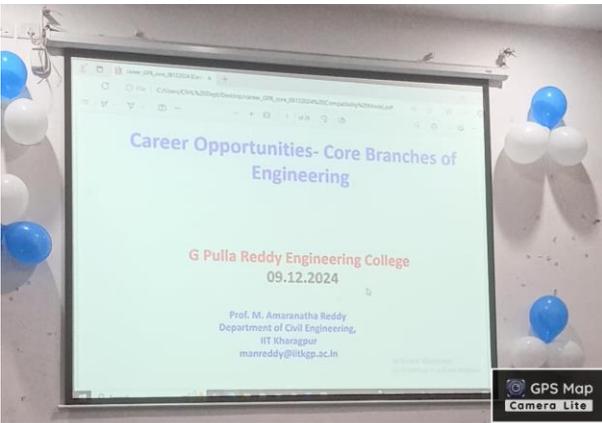
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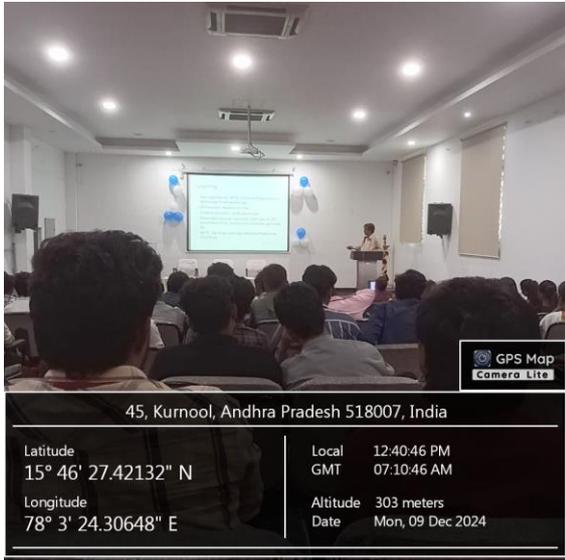
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## Event Name: 16. A video presentation on “Mega Structures”

**Name of the cell and Forum/society (CAA)** IEI students’ Chapter, CE Department, GPREC

**Date:** 20-12-2024, 3.30p.m to 4.30 p.m

**Event Type:** Video Presentation

**Venue:** Computer lab of CED Block-1, GPREC.

**Number of Participants:** The total 9 No’s participated. 2 No’s of Faculty acted as coordinators

### Objective:

#### 1. Introduction

1. Briefly introduce the engineering marvels of arch bridges and underwater construction.
2. State the purpose of the video: to explore the objectives, outcomes, and techniques behind these engineering feats.

#### 2. Section 1: The Engineering of Arch Bridges-Objectives of Arch Bridges

1. **Structural Integrity:** Arch bridges use the natural strength of an arch shape to distribute weight efficiently. This reduces the amount of material needed and allows them to support heavy loads.
2. **Durability:** Arch bridges are often built with durable materials (stone, concrete, steel) to withstand the test of time.
3. **Cost Efficiency:** These bridges are typically more cost-effective than other designs when considering material and maintenance over time.
4. **Aesthetic Value:** Arch bridges often offer a pleasing and historical aesthetic, blending functionality with beauty.

#### How Engineers Make Arch Bridges:

1. **Material Selection:** Engineers choose materials based on the bridge's span, location, and load requirements (stone, steel, concrete).
2. **Design Process:** The arch shape, whether a semi-circular or pointed arch, is carefully calculated using principles of physics to ensure stability and strength.
3. **Foundation and Abutments:** The bridge's supports, known as abutments, are designed to hold the weight of the arch and the load it bears.
4. **Construction Techniques:** Engineers often build arch bridges using scaffolding or falsework to support the arch during construction until it becomes self-supporting.

#### 3. Section 2: Underwater Construction-Objectives of Underwater Construction

1. **Safety and Stability:** Building in or under water requires unique considerations to ensure structures remain stable despite water pressure, currents, and other environmental factors.
2. **Innovative Materials and Technologies:** Engineers must use water-resistant materials (concrete, steel) and cutting-edge technology to build safely underwater.
3. **Environmental Protection:** Minimizing the impact of construction on marine ecosystems is an essential goal.
4. **Timely Completion:** Underwater projects often need to be completed within specific time frames to avoid disruptions in waterways or marine life.

#### How Engineers Build Underwater Structures:

1. **Diving and Remote Operation:** In some cases, divers or remotely operated vehicles (ROVs) perform detailed inspections or work on underwater sites.
2. **Caissons and Cofferdams:** Engineers use sealed, waterproof chambers (caissons) to create dry spaces for construction, and cofferdams to divert water during the building process.

3. **Hydraulic and Pneumatic Systems:** These are often used to assist with the construction process by controlling the flow of water and maintaining safe conditions.
4. **Floating Platforms and Barges:** For larger underwater projects (e.g., bridges, tunnels), floating platforms are used to transport materials and personnel to the site.

### Highlights:

Mr. F. Mohammed Fairuz Roll No. 249X5A01C9, IV semester B- section student delivered a video presentation & clarified question asked by audience of GPREC.

<https://youtu.be/qfPt8J95R-A?si=9ouriHMEdOKnCcM0W>

The beautiful engineering behind the Arch Bridges

[https://youtu.be/t5cJB6JL0\\_k?si=M1kaISE2DJKAQt8i](https://youtu.be/t5cJB6JL0_k?si=M1kaISE2DJKAQt8i)

Under water construction how do engineers make them

### Outcome:

#### Outcomes of Arch Bridges:

1. **Efficient Load Distribution:** The arch design channels forces along the curve, ensuring stable distribution and minimizing stress on the materials.
2. **Longevity and Low Maintenance:** Many arch bridges last for centuries with minimal upkeep.
3. **Cultural Significance:** Many famous bridges (e.g., the Pont du Gard) are not only engineering landmarks but also cultural symbols.

#### Outcomes of Underwater Construction:

1. **Infrastructure in Challenging Environments:** Successful underwater construction has led to critical projects like underwater tunnels, bridges, and pipelines, contributing to transportation and resource distribution.
2. **Resilience in Harsh Conditions:** Underwater structures, like the Oresund Bridge (Sweden-Denmark), need to endure harsh conditions, including water pressure, corrosion, and environmental factors.
3. **Technological Advancements:** Many underwater construction techniques have led to new advancements in both marine and civil engineering.
1. **Sustainability:** Both fields are increasingly focusing on sustainability by reducing environmental impact and increasing energy efficiency during construction and operation.

### Conclusion

1. Recap the key points covered in the presentation.
2. Emphasize the remarkable combination of creativity, science, and technology that allows engineers to build these complex and lasting structures.
3. Close with a thought on how future advancements will further enhance the capabilities of arch bridges and underwater construction.

### Visuals for the Video Presentation

1. **Arch Bridge Construction:** Show time-lapse or animated graphics of arch bridges being built.
2. **Underwater Construction:** Include footage of divers working underwater, construction

of underwater tunnels or platforms, and images of underwater structures.

3. **Before-and-After Comparisons:** Show the transformation of a site before and after construction (e.g., an underwater tunnel or bridge).
4. **3D Models or Animations:** Use 3D animations to show the structural principles behind arch bridges and underwater construction methods.

### Photos



**Event Name: 17. "Technical Quiz"****Name of the cell and Forum/society (CAA)** IEI students' Chapter, CE Department, GPREC**Date:** 28-12-2024, 3.30p.m to 4.30 p.m**Event Type:** Technical Quiz**Venue:** CE-4 of CED Block-2, GPREC.**Number of Participants:** The total (12No's) 6 batches (2 number of students per batch) participated.**Objective:****1. Assess Knowledge and Understanding:**

- Evaluate participants' understanding of fundamental concepts in concrete technology, reinforced concrete, and fluid mechanics.
- Test knowledge of the properties, behavior, and application of materials used in civil engineering, especially in the context of concrete and reinforced concrete structures.

**2. Encourage Critical Thinking:**

- Stimulate problem-solving and analytical thinking by presenting real-world engineering challenges related to these subjects.
- Encourage participants to apply theoretical knowledge in practical scenarios, helping them to think critically about the use of concrete, reinforcement, and fluid mechanics in construction and design.

**3. Promote Awareness of Latest Developments:**

- Introduce and discuss recent advancements in the field of concrete technology, reinforcement techniques, and fluid mechanics to ensure participants are updated on current trends and innovations in civil engineering.

**4. Engage Participants in Healthy Competition:**

- Provide an interactive and engaging learning environment where participants compete in a friendly manner, fostering a sense of teamwork and collaboration.

**5. Strengthen Learning and Retention:**

- Reinforce concepts and enhance memory retention through quiz-style learning, where repetition and recall help solidify important topics in participants' minds.

**6. Identify Knowledge Gaps & Encourage Continued Learning:**

- Highlight areas where participants might need improvement, enabling them to focus on specific topics for future study or professional development.
- Motivate students, professionals, and enthusiasts to explore the subjects more deeply, pursue further education, or seek solutions to real-world problems in the fields of concrete, reinforcement, and fluid dynamics.

**Highlights:**

Mr. F. Mohammed Fairouz, Roll No. 249X5A01C9 & Mr. K. Mohith Naik, Roll No. 249X5A01A9 in CE-4 of CED Block-2, GPREC.

**Outcome:**

Expected Outcomes of a "Technical Quiz" on Concrete Technology, Reinforced Concrete, and Fluid Mechanics:

**1. Enhanced Subject Knowledge:**

- Participants will have a stronger grasp of key principles in concrete technology, reinforced concrete design, and fluid mechanics, increasing their theoretical and practical knowledge.

**2. Improved Problem-Solving Abilities:**

- The quiz will improve participants' ability to analyze problems, make decisions based on engineering principles, and apply knowledge effectively to find solutions in real-world engineering scenarios.

**3. Development of Practical Insights:**

- Participants will gain insights into the practical applications of concrete materials, reinforcement techniques, and fluid dynamics in civil engineering projects, such as construction, structural design, and hydraulic systems.

#### 4. Increased Engagement with Emerging Topics:

- Participants will develop an interest in contemporary issues and trends within the fields of concrete technology, reinforced concrete, and fluid mechanics, such as sustainability, advanced materials, and fluid-structure interactions.

#### 5. Recognition of Strengths and Weaknesses:

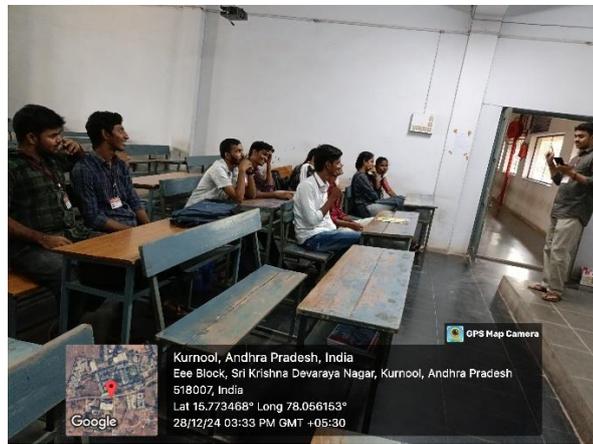
- Participants will identify their strengths and weaknesses across various topics, allowing them to focus future studies or research on areas that require improvement.

#### 6. Increased Confidence & Fostering Collaborative Learning:

- As participants successfully complete challenges, they will gain confidence in their technical abilities, whether they are students, engineers, or enthusiasts.
- In team-based quizzes, participants will learn to collaborate effectively, discuss solutions, and share knowledge, fostering a collaborative approach to learning complex technical subjects.

By achieving these objectives and outcomes, a technical quiz on these subjects would not only test existing knowledge but also stimulate further learning and professional growth.

### Photos



**Event Name: Technical Treasure Hunt**

**Name of the cell and Forum/society (CAA)**

**Date:** 03-01-2025, 3.30p.m to 4.30 p.m

**Venue:** FM Lab ECE Block-3, GPREC.

IEI students' Chapter, CE Department,  
GPREC

**Event Type: Treasure Hunt**

**Number of Participants:** The total 9 No's participated. 2 No's of Faculty acted as coordinators

**Objective:**

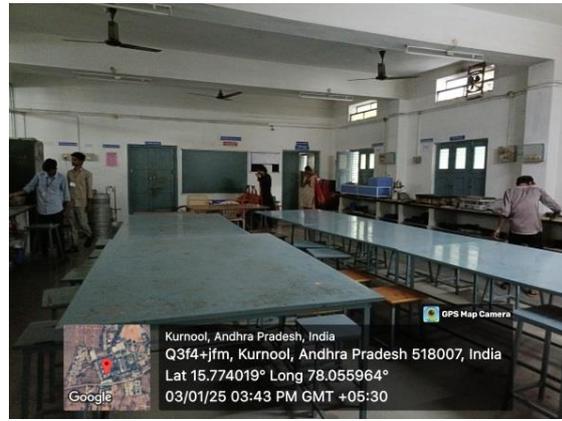
A **Technical Treasure Hunt** is a fun, engaging, and intellectually stimulating activity often organized in colleges, tech fests, or corporate events. Its objectives can vary depending on the context.

**Highlights:**

**Outcome:**

The **outcomes** of a Technical Treasure Hunt can be impactful and multifaceted, benefiting participants in various ways. Technical Treasure Hunt isn't just an entertaining event but also a valuable learning experience! Let me know if you need more detailed points for a specific audience or setting.

**Photos**



**Event Name: Awareness Program on NACC**

**Name of the cell and Forum/society (CAA)** IEI students' Chapter, CE Department, GPREC

**Date:** 04-01-2025, , 11:00 AM to 12:40 PM

**Event Type: Seminar**

**Venue:** Seminar Gallery 2, GPREC

**Number of Participants:** The total no of students about 240 participated and two faculties acted as coordinators.

**Objective:**

The objectives of an Awareness Program on NAAC (National Assessment and Accreditation Council) focus on educating stakeholders about the importance, processes, and benefits of NAAC accreditation for educational institutions.

**Highlights:** Dr. K. Devaki Devi, Dean Student's Affairs, GPREC delivered the contents of NAAC to the 2<sup>nd</sup> and 3<sup>rd</sup> year students of Civil Engineering Department.

**Outcome:**

The outcomes of an Awareness Program on NAAC (National Assessment and Accreditation Council) focus on the positive changes and impacts experienced by institutions, stakeholders, and the educational ecosystem as a result of the program.

**Photos**



## Event Name: Higher Education Opportunities in Civil Engineering

Name of the cell and Forum/society (CAA)

IEI students' Chapter, CE Department, GPREC

Date: 18-01-2025, , 11:50 AM to 12:40 PM

Event Type: Seminar

Venue: CE-3, CED Block-2, GPREC

Number of Participants: The total 68 no's students participated in Seminar.

**Objective:** The objectives of higher education opportunities in Civil Engineering revolve around equipping students with advanced technical knowledge, practical skills, and professional competence to excel in the field.

**Highlights:** Discussed about the higher education opportunities to Civil Engineering students through GATE and other ways. Discussed about the disciplines of Civil Engineering in Higher education and also mentioned the Faculty available in the department like structural engineering, water resources engineering, environmental engineering, transportation engineering, RS&GIS, geotechnical engineering and earthquake engineering. Also discussed about Planning and its branches like transportation, environmental, urban & regional planning their opportunities.

### Outcome:

These outcomes ensure that civil engineering graduates emerge as technically sound, ethically responsible, and socially conscious professionals ready to address global infrastructure challenges.

### Photos



**Event Name: Pictoria Civil Engineering**

**Name of the cell and Forum/society (CAA)**

IEI students' Chapter, CE Department, GPREC

**Date:** 22-01-2025, 3:30 PM to 4:30PM

**Event Type:** Quiz

**Venue:** CE 3 CE Block 2

**Number of Participants:** The total 9 No's participated. One Faculty acted as coordinator.

**Objective:**

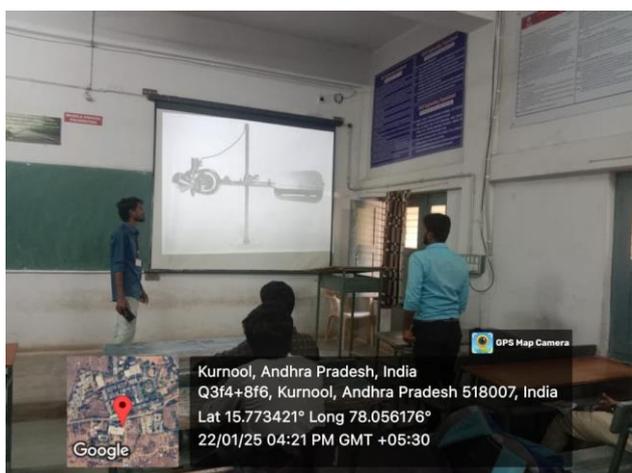
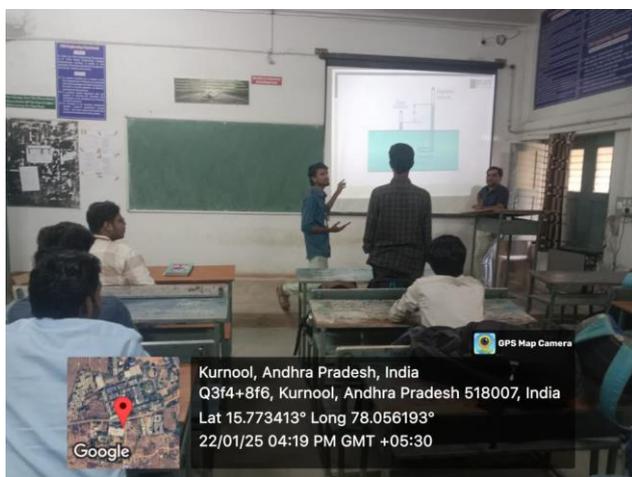
The objectives of Pictoria in Civil Engineering (assuming Pictoria refers to a creative or technical activity such as a poster presentation, visual competition, or exhibit in the civil engineering domain) may focus on fostering innovation, communication, and knowledge-sharing among participants.

**Highlights:**

**Outcome:**

The outcomes of Pictoria in Civil Engineering (if Pictoria refers to a poster presentation, visual competition, or creative exhibit) focus on the learning, skill development, and professional growth participants gain through the activity.

**Photos**



## Event Name: Technical Tour Tungabhadra Dam and Powerhouse

Name of the cell and Forum/society (CAA) IEI students' Chapter, CE Department, GPREC

Date: 18th January 2025, 2:00 AM to 11.50PM Event Type: One day Technical Tour

Venue: Tungabhadra Dam and Powerhouse, Tungabhadra River, near Hospet, Karnataka. Number of Participants: Five faculty members, one technician, and one attender facilitated 73 students

### Objective:

1. To study the civil engineering design and construction techniques used in the Tungabhadra Dam.
2. To understand the principles of hydraulic structures, including reservoir management, spillway design, and irrigation systems.
3. To explore the multipurpose use of the dam, including irrigation, flood control, and water storage.
4. To connect theoretical knowledge from academics to real-world applications of dam engineering and energy conversion.
5. To observe the integration of hydropower generation with dam operations.
6. To gain insight into the maintenance and long-term sustainability of large-scale infrastructure..

### Highlights:

#### Itinerary of the Visit

- **Departure:** The group departed from G.Pulla Reddy Engineering College, Kurnool & Old Control room early in the morning and arrived at the Tungabhadra Dam site by 2:00AM to 8:00 AM.
  - **Guided Tour of the Dam:** The students were given a briefing on the design, construction, and operation of the dam, followed by an on-site walk to observe its key structural features.
  - **Visit to the Powerhouse:** The students toured the powerhouse to understand its working principles, including turbine operations, energy conversion, and grid integration.
  - **Interaction Session:** Experts provided insights into the challenges of managing such a large hydraulic structure and answered students' questions.
  - We visited the Humpi Temple in the evening around 4:30 PM
- Return:** The group departed from the Humpi temple in the evening and returned to the college by mid night 11:50PM

### Overview of the Tungabhadra Dam

The Tungabhadra Dam is one of the most significant multipurpose dams in India, built across the **Tungabhadra River**, a tributary of the Krishna River. Its primary purpose includes water storage, irrigation, hydroelectric power generation, and flood control.

The visit was an enriching experience, providing practical exposure to civil engineering concepts. We extend our gratitude to the Tungabhadra Dam authorities for their hospitality and Special thanks to **Sri Navedulla garu, Assistant Excuetive Engineer** and **Sri Raghavendra Garu, Section Officer**, Thungabhadra dam, Hospet, Karnataka for their detailed explanations.

### Outcome:

The industrial visit to the Tungabhadra Dam and Powerhouse was an invaluable opportunity for civil engineering students to observe real-world applications of hydraulic, structural, and geotechnical engineering. The experience highlighted the importance of multipurpose dam

projects in sustainable development and regional growth.

### Photos



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### Photos



## Event Name: Awareness Program on Road Safety

Name of the cell and Forum/society (CAA)

IEI students' Chapter, CE Department, GPREC

Date: 27-01-2025, , 02:30 PM to 4:40 PM

Event Type: Awareness Program

Venue: GPREC Auditorium

**Number of Participants:** The total no of students about 120 participated and about 5 faculties are also present in the program.

### Objective:

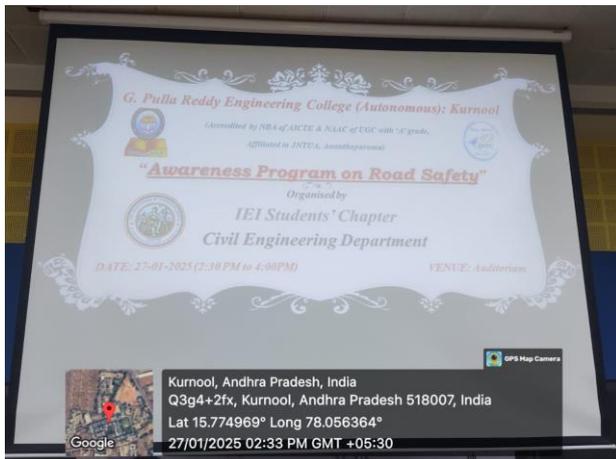
- Educate participants on traffic rules, regulations, and safe driving practices.
- Raise awareness about the causes and consequences of road accidents.
- Promote responsible behavior among drivers, pedestrians, and commuters.
- Encourage the use of safety measures like helmets, seat belts, and speed limits.
- Foster a culture of safety and respect for road users.

**Highlights:** Regional Transport Authority official's are presented videos and PPT on road accidents, in coordination with Dr. R.Susmitha and Sri.M. Hemanth Kumar Assistant Professor of CED,.

### Outcome:

- Improved understanding of road safety laws and their importance.
- Reduction in risky behaviours' and better compliance with traffic rules.
- Increased use of protective gear and safety measures.
- Greater awareness of accident prevention strategies.
- Contribution to creating safer roads and reducing accident rates.

### Photos



## Event Name: Tech Draw( AutoCAD Contest).

Name of the cell and Forum/society (CAA)

IEI students' Chapter, CE Department, GPREC

Date: 29-01-2025, 4.30p.m to 5.30 p.m

Event Type: Competition

Venue: Computer Lab of CED block-1, GPREC

Number of Participants: About 16 members participated. 2 No's of Faculty acted as coordinators

### Objective:

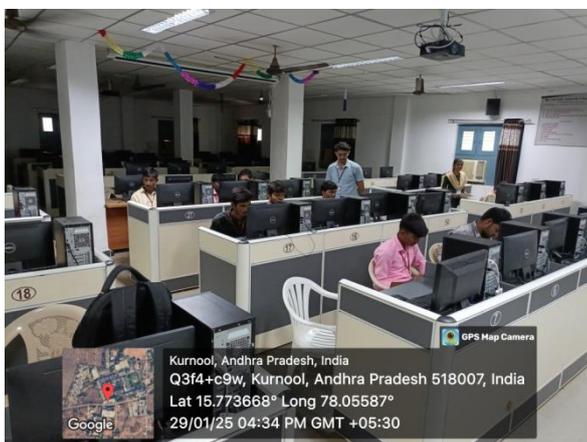
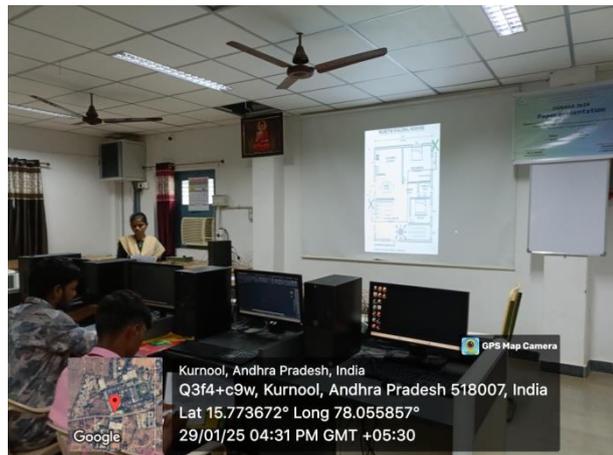
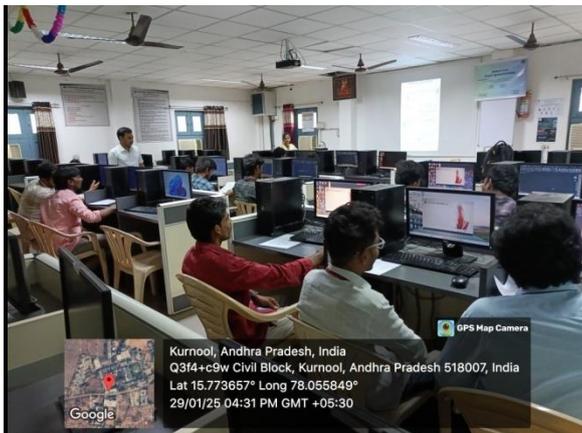
- Encourage creativity and technical proficiency in using AutoCAD for civil engineering design.
- Enhance students' drafting, modeling, and visualization skills.
- Promote problem-solving and time management through design challenges.
- Foster innovation in creating accurate and efficient civil engineering drawings.
- Provide hands-on experience in industry-standard software for real-world applications.

**Highlights:** Mr. F. Mohammed Fairouz (249X5A01C9) & Ms. Ala Mamatha 249X5A01A3 of IV sem CED has planned and conducted the above contest in computer lab of CED, GPREC

### Outcome:

- Improved speed and accuracy in creating 2D and 3D civil engineering designs.
- Enhanced understanding of design standards and technical detailing.
- Ability to interpret and produce professional-quality construction drawings.
- Increased confidence in using AutoCAD for infrastructure and architectural projects.
- Recognition of creativity and technical skills through competitive performance.

### Photos



## Event Name: Self Compacting Concrete

Name of the cell and Forum/society (CAA)

IEI students' Chapter, CE Department,  
GPREC

Date: 01-02-2025, 11:50 AM to 12:40 PM

Event Type: Seminar

Venue: CE-3 of CED block-2, GPREC

Number of Participants: The total 63 no's students participated in Seminar of both IV A & B Section.

### Objective:

- Understand the properties, composition, and behavior of Self-Compacting Concrete (SCC).
- Learn the methods of designing SCC mixes for various construction needs.
- Explore the advantages, limitations, and applications of SCC in modern construction.
- Gain knowledge of testing procedures and quality control for SCC.
- Study the role of SCC in enhancing construction efficiency and structural performance.

**Highlights:** Sri. G. Nagesh Kumar, Sr. Assistant Professor of CED, GPREC, given seminar on the above topic with PPT

### Outcome:

- Ability to design and produce SCC with proper mix proportions.
- Understanding of SCC's workability, durability, and self-leveling characteristics.
- Proficiency in conducting fresh and hardened state tests on SCC.
- Capability to apply SCC in complex and reinforced structures without vibration.
- Awareness of cost, labor, and time efficiency achieved through SCC in construction projects.

### Photos



## Event Name: Advanced Topics in Civil Engineering

Name of the cell and Forum/society (CAA)

IEI students' Chapter, CE Department,  
GPREC

Date: 01-02-2025, 11:50 AM to 12:40 PM

Event Type: Seminar

Venue: CE-3 of CED block-2, GPREC

Number of Participants: The total 63 no's students participated in Seminar of both IV A & B Section.

### Objective:

- Deepen understanding of specialized and emerging areas in civil engineering.
- Explore advanced design, analysis, and construction techniques.
- Develop skills in using modern tools, software, and technologies for civil projects.
- Understand sustainable practices and innovative materials in construction.
- Enhance problem-solving, research, and project management capabilities.

### Highlights:

Mr.F.Md.Firoz, a lateral entry student explained about Building Planning Principles and Mr.Bala Tejeswarudu explained about Surveying .

### Outcome:

- Ability to tackle complex engineering problems with advanced methodologies.
- Proficiency in using simulation, modeling, and analysis software.
- Knowledge of cutting-edge technologies like BIM, geotechnical instrumentation, and smart materials.
- Readiness to contribute to innovative and sustainable infrastructure development.
- Improved research, analytical, and leadership skills for multidisciplinary projects.

### Photos



## Event Name: R.C.C.Elements

Name of the cell and Forum/society (CAA)

IEI students' Chapter, CE Department,  
GPREC

Date: 15-02-2025, 11:50 AM to 12:40 PM

Event Type: Seminar

Venue: GPREC in CE-3 of CED block-2

Number of Participants: The total 17 no's students participated in Seminar, guided by Sri.M. Hemanth Kumar, Assistant Professor of CED.

### Objective:

- Understand the fundamentals of R.C.C., including its composition and properties.
- Learn about the behavior of concrete and steel under different loads and stresses.
- Study design principles for R.C.C. structures like beams, slabs, columns, and foundations.
- Gain knowledge of various codes and standards used in R.C.C. design and construction.
- Develop skills in analyzing and designing R.C.C. elements for strength, durability, and safety.

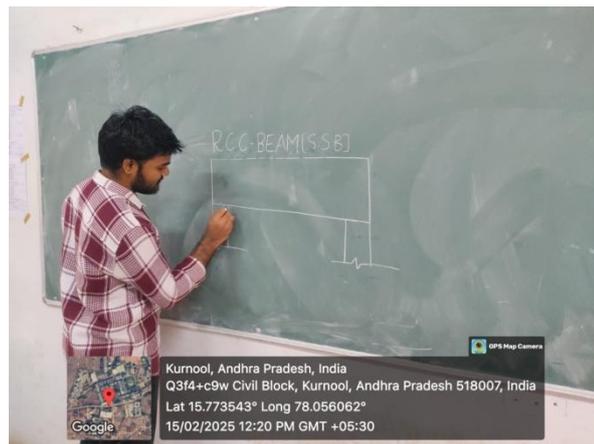
### Highlights:

Mr.K. Naga Sai Hitesh(249X5A01B0), a lateral entry student explained the above topic to IV sem A Section Student of CED.

### Outcome:

- Ability to identify and apply appropriate materials and mix proportions for R.C.C. construction.
- Proficiency in designing R.C.C. structures following safety and design standards (like IS codes).
- Capability to analyze structural elements under various load conditions.
- Practical understanding of reinforcement detailing and construction techniques.
- Readiness to solve real-world construction and design problems with effective R.C.C. solutions.

### Photos





## Event Name: Awareness Program on Resume Building

Name of the cell and Forum/society (CAA)

IEI students' Chapter, CE Department,  
GPREC

Date: 06-03-2025, , 04:00 PM to 5:00 PM

Event Type: Awareness Program

Venue: Computer Lab of Civil Engg.  
Department

Number of Participants: The total no of students about 14 participated and about 4 faculties are also present in the program.

### Objectives of Resume Building:

1. **Showcase Qualifications:** Present relevant skills, experience, and education clearly to potential employers.
2. **Highlight Achievements:** Emphasize accomplishments and successes in past roles to demonstrate capabilities.
3. **Tailor to Job:** Customize the resume to match the specific job requirements and stand out to hiring managers.
4. **Professional Branding:** Create a professional image that aligns with career goals and industry standards.
5. **Organize Information:** Structure details in a concise and easy-to-read format to make a strong first impression.

**Highlights:** Training and placement In-charge of CE Department Dr. K. Tharani, & Mr. P.Eswanth. Assistant Professors of CED, GPREC, are present and given their valuable suggestions

### Outcomes of Resume Building:

1. **Increased Job Opportunities:** A well-crafted resume opens doors to job interviews by effectively capturing an employer's attention.
2. **Improved Professional Identity:** A strong resume boosts confidence and positions you as a competitive candidate.
3. **Clear Career Progression:** Highlights career growth, making it easier for employers to see your trajectory and potential.
4. **Enhanced Networking:** A polished resume helps with personal branding and networking opportunities in your field.

### Photos

