

**VOLUME 12 2021-2022**



**ENGINEERING  
INDIA'S  
CHANGEMAKERS**

# **VISION AND MISSION OF THE INSTITUTE**

## **VISION**

To become an institution which is internationally recognized for its holistic approach to engineering, innovative teaching and learning culture, research and entrepreneurial ecosystem, and sustainable social impact in the community.

## **MISSION**

- To offer undergraduate and postgraduate programs which are supported through industry relevant curriculum and innovative teaching and learning processes that would help students to succeed in their professional careers.
- To provide faculty and students with an eco system that fosters innovation, research, entrepreneurship and international exposure through strategic partnerships with government organizations and collaboration with industries.
- To provide holistic learning environment to students which will contribute to their personal and professional growth and enable them to become leaders in their respective fields.
- To contribute to the development of the region by using our technological expertise to work with nearby communities and support them in their social and economic development.

## **VISION AND MISSION OF THE CIVIL DEPARTMENT**

### **VISION**

To be recognized for excellence in teaching, innovation, and research aimed towards betterment of society through sustainable infrastructural development.

### **MISSION**

- To integrate innovative teaching and learning practices that will enable students to build technical competence for working in Civil Engineering Industries.
- To encourage innovation, research, and entrepreneurship among faculty and students that will lead to sustainable development.
- To become self-sustainable through strategic collaborations with industries and nearby communities focused on consultancy services.

## **Program Educational Objectives:**

**PEO1:** Graduates will be able to work in multidisciplinary teams focused on development of infrastructure, design, sustainability, construction management and all the other related fields of Civil Engineering.

**PEO2:** Graduates will be professionally competent through their ability to use modern civil engineering tools and manage projects in leadership positions.

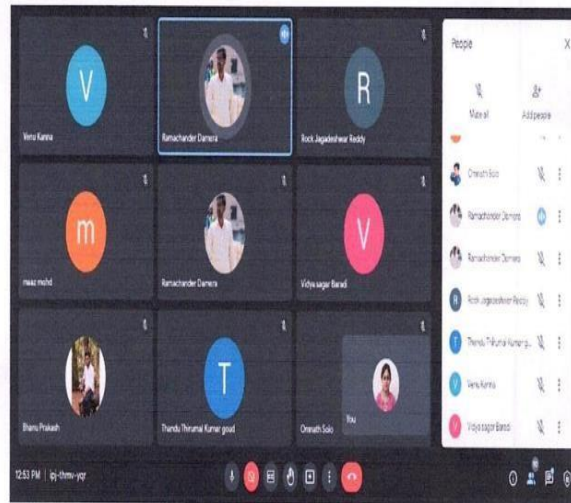
**PEO3:** Graduates will transform into change makers who will work towards societal development and advocate for equity, social justice, and sustainable development.

## **1. Seminar on Green Construction & Construction practices:**

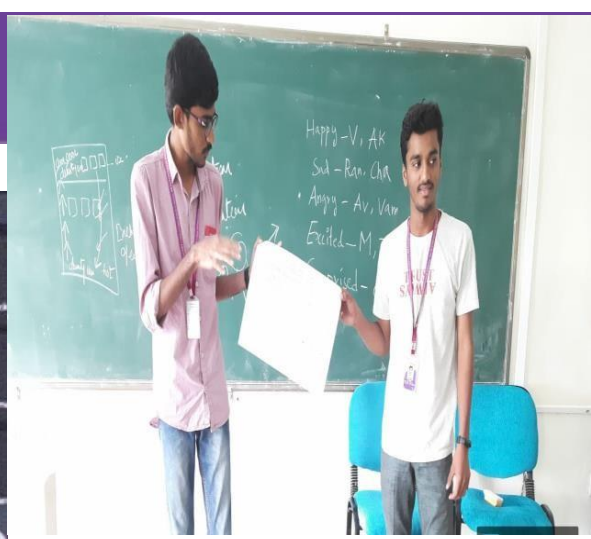
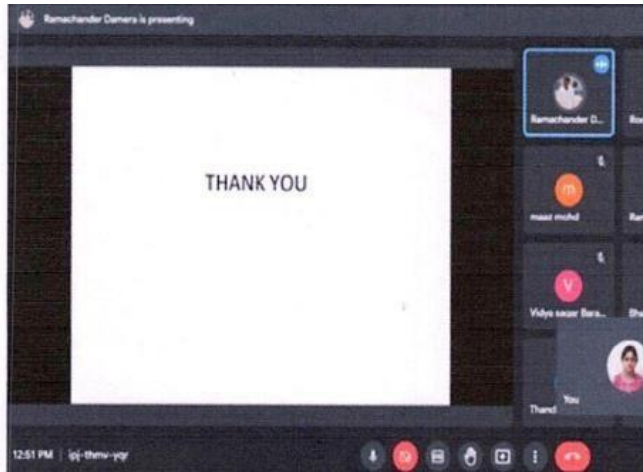
A Seminar was organized on the topic " Green Construction and Construction Practices" on 14<sup>th</sup> May, 2022 for B. Tech Second- & Third-year students of the Department of Civil Engineering, KGR CET. Mr. Ramachandra Dhamera, Associate Engineer, Jaya Krishna Construction, was the expert for the session. He included in his session, the following contents:

- What is Green Building?
- Guiding Principles of Green Building Practices.
- Benefits of Green Building Practices.
- Green Buildings in India.

He started by giving the brief description about Green Buildings. He mentioned that any building that makes optimum use of natural resources through-out its life- from planning, design, construction, and occupancy. He added that it is the practice of creating more resource- efficient designs, which can be sustainable. It has an overall positive impact on the ecosystem. For example, from taking care of the well-being of construction workers to make sure that the construction material has maximum re-usability, there are many factors that contribute to a building being green. He also added, according to the report from United Nations Environment Program, building accounts for 18 % of total carbon-di-oxide emissions. If construction keep growing at the present rate, the emissions will double by 2050.



Buildings in India



### Few glimpses of Seminar

## **2. Advanced Course on Green Construction:**

A certification course was conducted for students from 18<sup>th</sup> June to 27<sup>th</sup> August, 2022. Following were the details of the course:

### **Pedagogical approach:**

A combination of class-room interactions, ppt, assignments and poster making and presentation. Session started on 18th June by giving importance of Green Buildings. Why green building concepts are important for all the engineers and how it has impacted the betterment of society. Instructor further added the importance of SDGs in Green Building concepts and after the session, students were given some problem statement and asked them to prepare poster on those topics. Earth's Energy Budget and Green House Effect has been taught and faculty has also given a concept of how green buildings are addressing such problems. Climate change in India is having profound effects on India, which is ranked fourth among the list of countries most affected by climate change in 2015. India emits about 3 gigatons (Gt) CO<sub>2</sub>eq of greenhouse gases each year; about two and a half tons per person, which is less than the world average. The country emits 7% of global emissions, despite having 17% of the world population so giving student a knowledge of it is imperative. 2nd July session was all about Climate Actions and What Controls Earth's Climate.



Concerns due to anthropogenically forced climate change owing to emissions of CO<sub>2</sub> are now well accepted and have resulted in several initiatives to reduce CO<sub>2</sub> emissions. The U.N. panel (IPCC) in its latest report indicated that to contain warming at 1.5 °C, manmade global net CO<sub>2</sub> emissions would need to fall by about 45 % by 2030 from 2010 levels and reach 'net zero' by 2050. Carbon Sequestration technique was taught to students. Carbon capture and sequestration (CCS) technology is a process of capturing waste CO<sub>2</sub> from large point sources, such as fossil fuel stations, so that it will not enter the atmosphere. Major Environmental Episodes were taught to students, there are many environmental issues in India. Air pollution, water pollution, garbage, domestically prohibited goods, and pollution of the natural environment are all challenges for India. Nature is also causing some drastic effects on India. The situation was worse between 1947 through 1995. According to data collected and environmental assessments studied by World Bank experts, between 1995 through 2010, India has made some of the fastest progress in addressing its environmental issues and improving its environmental quality in the world.



Water Conservation and Management was taught to students. Indoor air & Environment Quality management and Its Consequences and way out has been taught to students. Green Building Rating System, Standards and Codes has been taught to students. Green building rating brings

together a host of sustainable practices and solutions to reduce the environmental impacts. Green building design provides an integrated approach considering life cycle impacts of the resources used. An important development in the growth of green building movement in India is the launch of the following IGBC Green Building Rating Systems. Despite the increasing square footage of green buildings worldwide, green building expertise remains largely in the domain of building industry professionals. However, the performance of and advocacy for green buildings would benefit from a green building literate general public. Green building education is an expanding frontier for education and can create opportunities to integrate science and environmental literacies into the study of everyday environments. Few resources exist, however, to help educators incorporate green building themes into the science classroom. The work here developed educational tools for connecting green buildings and science education through a multi-step process. An interdisciplinary literature review yielded a series of frameworks that were improved through two focus groups with science and environmental educators and built environment professionals.



Few glimpses of Certification courses.

### **3. Guest lecture on “Analysis and Design Parameters in Foundation Engineering”:**

A guest lecture on “Analysis and Design Parameters in Foundation Engineering” organized, the guest of honour Dr. Chandra Bogi Reddy discussed in detail about how analysis and design parameters for Foundation Engineering. He explained initially Index properties and Engineering properties of soil.



Few glimpses of guest lecture

In index properties of soil, he had described that the plasticity index and grain size analysis as per the IS methods. In Engineering properties of soil, he explained clearly about the Coefficient permeability by compaction test, consolidation test and shear strength parameters. Later he has explained in detail about the foundation and its types of foundation Shallow foundation and deep foundation with their classification

**Faculty participation in International Conference:**

S.NO	Name of the Faculty	Title of the Activity	Place of the Activity	Type of Activity	From Date	To Date
1	Vijayakumar	International Conference on Recent trends in science and Technology	ATME College of Engineering	International Conference	14-07-2022	15-07-2022
2	Jagdish SH	International conference on Physical Sciences and Technology	Institute for engineering Research and Publications	virtual conference	21-05-2022	22-05-2022
3	Himabindu K	International conference on Physical Sciences and Technology	Institute for engineering Research and Publications	virtual conference	21-05-2022	22-05-2022
4	Mahantesh P	International conference on Physical Sciences and Technology	Institute for engineering Research and Publications	virtual conference	21-05-2022	22-05-2022
5	G Mounika	2nd International Conference Startup venture- Technology Development and Future Strategies (SV-TDFS) 2022.	Manipal University Jaipur	International Conference	19-05-2022	20-05-2022
6	Thangamani K	2nd International Conference Startup venture- Technology Development and Future Strategies (SV-TDFS) 2022.	Manipal University Jaipur	International Conference	19-05-2022	20-05-2022
7	Thangamani K	2 <sup>nd</sup> International E-Conference on "Novel Innovations and Sustainable Development in Civil Engineering" (NISDCE'22)	Vel Tech, Chennai	International Conference	31-03-2022	01-04-2022
8	Shiwani Srivastava	2 <sup>nd</sup> International E-Conference on "Novel Innovations and Sustainable Development in Civil Engineering" (NISDCE'22)	Vel Tech, Chennai	International Conference	31-03-2022	01-04-2022

**Faculty Participation in FDP:**

Sl. No	Name Of Faculty	Title of the Activity	Place of the Activity	Start Date	End Date
1	Thangamani K	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology Amity University Madhya Pradesh	03.08.2022	09.08.2022
2	Venkata Sai Prasad	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology Amity University Madhya Pradesh	03.08.2022	09.08.2022
3	M Vijayakumar	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology Amity University Madhya Pradesh	03.08.2022	09.08.2022
4	M Ratnachary	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology Amity University Madhya Pradesh	03.08.2022	09.08.2022
5	Himabindu	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology Amity University Madhya Pradesh	03.08.2022	09.08.2022
6	G Mounika	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology Amity University Madhya Pradesh	03.08.2022	09.08.2022

7	Mahantesh P	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology Amity University Madhya Pradesh	03.08.2022	09.08.2022
8	Jagadish SH	Emerging technologies in Civil Engineering for construction & Demolished waste	Amity School of Engineering and Technology	03.08.2022	09.08.2022
9	Thangamani K	Emerging technologies in Civil Engineering for construction & Demolished waste	Rajshree Institute of management & Technology	21.06.2022	25.06.2022
10	Venkatasai Prasad	Emerging technologies in Civil Engineering for construction & Demolished waste	Rajshree Institute of management & Technology	21.06.2022	25.06.2022
11	M Vijayakumar	Emerging technologies in Civil Engineering for construction & Demolished waste	Rajshree Institute of management & Technology	21.06.2022	25.06.2022
12	Himabindu	Emerging technologies in Civil Engineering for construction & Demolished waste	Rajshree Institute of management & Technology	21.06.2022	25.06.2022
13	M Ratna chary	Emerging technologies in Civil Engineering for construction & Demolished waste	Rajshree Institute of management & Technology	21.06.2022	25.06.2022

14	Thangamani K	Geotechnical Engineering Practices & Its sustainable Development	Ballari Institute of Technology & Management	26.05.2022	28.05.2022
15	Himabindu	Student Centred Pedagogies for engineering Course	KGR CET	07.03.2022	11.03.2022
16	M Vijayakumar	7 Day Design Thinking Course	Turnip innovations	28.03.2022	03.04.2022
17	G Mounika	7 Day Design Thinking Course	Turnip innovations	28.03.2022	03.04.2022
20	Himabindu	Recent and Emerging Trends in Structural Engineering	Bansal Institute of Engineering and Technology	28-02 - 2022	05-03-2022
21	Mahantesh P	Recent and Emerging Trends in Structural Engineering	Bansal Institute of Engineering and Technology	28-02- 2022	05-03-2022

### Faculty Achievements:

#### A. Research Publications:

1. **Dr TS Ramesh Babu** published his research paper on “**Study of Mechanical Properties on Ferric Oxide Microparticles Reinforced with Polyethylene**” in Advances in Material science and Engineering SCI, Volume 2022, Article ID 3077301, <https://doi.org/10.1155/2022/3077301>
2. **Sujnani Kadakolmath** published her research paper on “**Role of Non-destructive testing and Evaluation in Water Resource Engineering**” Vol. 19 No. 1 (2022): Journal of Non Destructive Testing and Evaluation (JNDE), March 2022, <https://jnde.isnt.in/index.php/JNDE/article/view/27>

### **B. Patent Publications:**

<b>Sl. No</b>	<b>Name Of Faculty</b>	<b>Date of Filing</b>	<b>Application No.</b>	<b>Date Of Published</b>	<b>Title</b>
1	Dr. T.S. Ramesh Babu	02-02-2022	202241005574	02-11-2022	Method of Developing Concrete Cloth for Sustainable Infrastructure in Coastal Areas and Evaluating the same.
2	Mrs. Shiwani Shrivastava	18/5/2022	202221028456	06-03-2022	Big data Technique for Customer Relationship Management to Improve Customizations Services

### **C. Appreciation Received:**

<b>S. No</b>	<b>Name of the Faculty</b>	<b>Title of the Activity</b>	<b>From Date</b>	<b>To Date</b>
1	Shiwani Srivastava	Faculty Mentor for the Clean and Green Campus	01-01-2022	30-06-2022
2	Himabindu K	Delivered session on Types of assessment and rubrics	17-05-2022	-
3	Mahantesh P	International conference on Physical Sciences and Technology	21-05-2022	22-05-2022
4	Shiwani Srivastava	Innovate for menstrual Waste Hackathon, TSIC.	13-05-2022	30-05-2022
5	Thangamani K	Received grant of 1 lakh for community-based projects-prototype category	18-05-2022	-

## Student Achievements:

### A. Placements:

SL · N O	Roll number	Name	Mobile number	Branch	Company	Position	Package
1	18QM1A0130	Sheri Srihari	79010927 03	Civil	Bright Champs	Coding Educator	6 lpa
2	19QM5A0110	Deshapaga Abhishek	81433244 01	Civil	Caliber Technologi es	Develop er	4 LPA
3	18QM1A0102	Andhi Shilpika	75698601 74	Civil	Intellicraft	Trainee Cad Engineer	3 LPA
4	19QM5A0102	Adhe Venkatesh	99086933 78	Civil	Intellicraft	Trainee Cad Engineer	3 LPA
5	19QM5A0103	A. Naveen Goud	99512863 3	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
6	19QM5A0105	A Mallika	76808247 20	Civil	Intellicraft	Trainee Cad Engineer	3 LPA
7	19QM5A0106	C. Sai Kumar	82473968 13	Civil	InnovusTec h Solutions	Trainee Engineer	3 LPA
8	19QM5A0108	CH. Lakshmi Priya	99125933 78	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
9	19QM5A0114	K. Hari Kishore Reddy	99891169 88	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
10	19QM5A0117	K. Vamsi Krishna	99599476 73	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
11	19QM5A0120	M. Vishwanath ravindra	74164128 16	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
12	19QM5A0123	S Rajeshwar Reddy	81850576 53	Civil	Intellicraft	Trainee Cad Engineer	3 LPA
13	19QM5A0126	T. Deekshithe	95500375 33	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA

14	19QM5A0128	V. Gowtham	63006597 41	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
15	19QM5A0129	V. Lakshmi Kanth	91330475 71	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
16	19QM5A0130	Yamjala Devi	99083953 78	Civil	Intellicraft	Trainee Cad Engineer	3 LPA
17	18QM1A0105	C Shivaranjani	91772737 76	Civil	T & AS Global	Trainee Engineer	2.4 LPA
18	18QM1A0108	G Jaya Krishna	81850526 95	Civil	T & AS Global	Trainee Engineer	2.4 LPA
19	18QM1A0109	G Akshitha	70935824 41	Civil	T & AS Global	Trainee Engineer	2.4 LPA
20	18QM1A0124	P Abhiram	94902736 96	Civil	T & AS Global	Trainee Engineer	2.4 LPA
21	19QM5A0101	A Shirisha	76740740 91	Civil	T & AS Global	Trainee Engineer	2.4 LPA
22	19QM5A0104	A Rajesh Ram	63039598 70	Civil	T & AS Global	Trainee Engineer	2.4 LPA
23	19QM5A0111	J Hari Prasad	81878199 10	Civil	T & AS Global	Trainee Engineer	2.4 LPA
24	19QM5A0112	K Bhargavi	99636836 69	Civil	T & AS Global	Trainee Engineer	2.4 LPA
25	19QM5A0119	Ashwini M	63002693 84	Civil	T & AS Global	Trainee Engineer	2.4 LPA
26	19QM5A0124	Lakshmi Narayana	63006721 84	Civil	T & AS Global	Trainee Engineer	2.4 LPA
27	19QM5A0125	Syed Kareemulah	79959088 39	Civil	T & AS Global	Trainee Engineer	2.4 LPA
28	19QM5A0127	Lokesh	90105599 32	Civil	T & AS Global	Trainee Engineer	2.4 LPA
29	18QM1A0103	Boda Ranadheep	81878409 35	Civil	Intellicraft	Trainee Cad Engineer	3 LPA
30	18QM1A0113	Kethavath Suresh	95531193 50	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
31	18QM1A0119	Munjagalla Arvind Kumar	96406732 01	Civil	Caliber Technologi es	Develop er	4 LPA
32	18QM1A0120	Nakkala Kumar	99497275 17	Civil	Intellicraft	Trainee Cad Engineer	3 LPA

33	18QM1A0122	Nenavath Ashok	8186818623	Civil	T & AS Global	Trainee Engineer	2.4 LPA
34	18QM1A0127	Pulivarthi Naveen	9059509598	Civil	Caliber Technologies	Developer	4 LPA
35	18QM1A0128	RachityAnoshkumar	9959606240	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA
36	19QM5A0113	Kammari Umapathi	7093453852	Civil	Caliber Technologies	Developer	4 LPA
37	19QM5A0115	Kavali Madhu Yadav	8074006139	Civil	T & AS Global	Trainee Engineer	2.4 LPA
38	19QM5A0121	Patlolla Sai Ganesh Reddy	6281455905	Civil	Intellicraft	Trainee Cad Engineer	3 LPA
39	19QM5A0122	Perumalla Sharath Kumar Goud	8074436951	Civil	Innovus Tech Solutions	Trainee Engineer	3 LPA

### **B. Student Participation in Hackathon:**

S.NO	Roll Number	Name of the Student	Title of the Activity	Place of the Activity	From Date
1	20QM1A0106	J Shashank	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022
2	21QM5A0120	Tirmal Kumar	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022
3	21QM5A0111	K Anitha	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022
4	21QM5A0120	K Bhanu Prakash	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022
5	21QM5A0113	M Tarun	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022

6	21QM5A0119	J Sumanth	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022
7	21QM5A0108	Omnath Prajapathi	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022
8	21QM1A0110	P Akash	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	KGR CET	14-05-2022
9	20QM5A0105	G Jagadish	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	TSIC	09-07-2022
10	21QM5A0121	Tirmal Kumar	INNOVATE 4MENSTRUAL WASTE HACKATHON -2022	TSIC	09-07-2022

**C. Student Participation in Seminar:**

S.NO	Roll Number	Name of the Student	Title of the Activity	From Date
1	21QM5A0111	K Anitha	Green Construction and Practices	14-05-2022
2	21QM5A0106	J Sumanth	Green Construction and Practices	14-05-2022
3	21QM5A0109	Bhanu Prakash	Green Construction and Practices	14-05-2022
4	21QM5A0113	M Tharun	Green Construction and Practices	14-05-2022
5	20QM1A0106	J Shashank	Green Construction and Practices	14-05-2022
6	21QM5A0121	V Vinay Kumar	Green Construction and Practices	14-05-2022
7	21QM5A0119	S Venu	Green Construction and Practices	14-05-2022
8	21QM5A0120	T Thirmal	Green Construction and Practices	14-05-2022

