

# ASTHRA

September 2023



The Newsletter of  
**Department of  
Civil Engineering**



KPR Institute of  
Engineering and  
Technology

Learn Beyond

(Autonomous, NAAC "A")

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## **IN THIS ISSUE**



## About KPRIET

KPR Institute of Engineering and Technology (KPRIET), founded by Dr. K. P. Ramasamy, stands out as a leading institute of academic excellence by imparting technical, intellectual, and professional skills to students. The institute, with its diverse and energetic community of students offers a distinguishing blend of some of the premium graduate, undergraduate and research programs, talented faculty, world class amenities and a residential campus set on a sprawling 150 acres of lush green campus.

While students at KPRIET immerse themselves in academics, the institute has a lot in store for them outside the classroom. Student life includes participation in sports, co-curricular activities and cultural. In short, at KPRIET, students will find an academic and social environment where everyone—from faculty members to peer’s support shape their future.

KPRIET is a home to artistically designed buildings with state of the-art computer and internet facilities, modern workshops, seminar halls, auditoriums and well stocked libraries, sports and games fields in addition to an indoor badminton court and gymnasium.

KPRIET has a faculty strength of 227 with a faculty student ratio of 1:15. Out of the total, 97 faculty members PhDs. and 102 are in the process of completing their PhDs. As an exemplary institution of learning, KPRIET follows an admission policy that strongly favours merit, even as it enables access to education for students from all strata of society through appropriate scholarships

### **Vision of the Institute**

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To become a premier institute of academic excellence by imparting technical, intellectual and professional skills to students for meeting the diverse needs of industry, society, the nation and the world at large

### **Mission of the Institute**

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- Commitment to offer value-based education and enhancement of practical skills
- Continuous assessment of teaching and learning processes through scholarly activities
- Enriching research and innovation activities in collaboration with industry and institutes of repute
- Ensuring the academic processes to uphold culture, ethics, and social responsibilities

## About the Department

The Department of Civil Engineering of KPR Institute of Engineering and Technology, Coimbatore was established in the year 2009. The Department has been elevated to its next pedestal by offering PG in Structural Engineering in the year 2014. The Department has been recognized as a Research Centre for pursuing Ph. D. in Civil Engineering by Anna University. It has been accredited by NBA, New Delhi.

The Department also provides an opportunity for students in improving practical knowledge in the field of Civil Engineering and Software skills like AutoCAD, STAAD Pro, ETabs, SketchUp, Arc GIS, 3ds MAX and Revit Architecture through Building Information Modelling – Centre of Excellence, KPR Infra (start-up by students) and Learn-it (Masonry Yard), in addition to Communication and Presentation skills. The students must undergo Industrial Training and Industrial Visit to facilitate them to take up industrial live projects to understand the field constraints. KPR Civil Academy has been established to facilitate the students to take up the training for competitive exams.

The Department of Civil Engineering as well as faculty members has lifetime membership in various Professional Societies like ICI, IGS, IEI, ISTE, IPA and BAI. The Department of Civil Engineering has various Students Chapter like ACI, IGS, IEI, ICI, ISTE to gain knowledge through various programmes conducted by these bodies across the Nation.

## Vision of the Department

To develop competent Civil Engineers to create infrastructure with technology in demand that leads to nation building.

## Mission of the Department

- Provide holistic education to students to enhance technical knowledge and skills
- Indoctrinate augmented contents to meet the requirements of stakeholders
- Promote research and consultancy activities in collaboration with industries
- Foster ethical and moral values with leadership qualities

## Programme Organised

### Alumni Interaction

**Date: 25.09.2023**

On September 25, 2023, the Civil Engineering Department organized an Alumni Interaction Program with Er. Manisha, a Technical Assistant at Tirupur Corporation, and a 2015-2019 batch alumnus. The event was held in the Pallavi Hall and was attended by all 3rd year Civil Engineering students. Er. Manisha began her talk by sharing her experiences as a student at the institute. She spoke about the challenges she faced and the lessons she learned. She then went on to discuss her career journey, from her first job as a graduate engineer to her current position at the Tirupur Corporation



### Career Counselling Program to GRG Matriculation Higher Secondary School

**Date: 27.09.2023**

120 Students visited from GRG schools studying 12th standard !!Career counselling program was given by Dr.Babu Rangarajan for 12th standard students and Visited L&T Experience Engineering and other labs in KPR Institute of Engineering and Technology(Learned about the Civil Engineering methods, EEE and Mechanical Engineering practices. Specifically, learned about AR and VR concepts in Civil Engineering practices)Learned many things about the developments in Civil, Electrical and Mechanical Engineering streams



## Civil Engineering Association Inauguration

**Date: 14.09.2023**

The Civil Engineering Association Inauguration, organized by the Department of Civil Engineering at KPR Institute of Engineering and Technology, took place on September 14, 2023 at 11.30 am in Raagam Hall. The event aimed to foster a sense of community and collaboration within the civil engineering department, encourage innovation and sustainability, and provide a platform for knowledge exchange. Dr. M. Ramasamy, the Principal of KPR Institute of Engineering and Technology, delivered an inspirational presidential address. He emphasized the importance of academic excellence and the role of the Civil Engineering Association in nurturing future leaders in the field. Ms. Sanjana Vijayakumar, Managing Director of Town and City Developers and KG Group, graced the occasion as the Chief Guest.



## **Civil Engineering Technical Updation Programme on “Fundamentals of Concrete Quality Control at Sites”**

**Date: 20.09.2023**

Department of Civil Engineering has organized a one day Civil Engineer's Technical Updation Programme in association with Coimbatore Builders and Contractors Association on the Topic ' Fundamentals of Concrete Quality Control at Sites' on 20th September, 2023 at Lecture Hall 102, S&H Block, KPR Institute of Engineering and Technology, Coimbatore. Resource Person for the event was Dr. A. Sudhahar, Chairman, Association of Consulting Civil Engineers(India), Coimbatore Centre in association with Chettinad Cement - Mobile Testing Lab. Around 70 young civil engineers staff from 30 different organization working in the office of CEBCA members participated and got benefitted. Also along with them Er. J. Sagayaraj- President, R. Senthil - Hon. Secretary and S. Chinnaiah- Training Panel Head and associates from the CEBCA Association participated in the session.



### **Demystifying GATE Examination**

**Date: 13.09.2023**

The Department of Civil Engineering in association with the Career Advancement Cell of KPR Institute of Engineering and Technology, organized the expert talk on 'DEMYSTIFYING GATE EXAMINATION' on September 13th, 2023, at 2:00 PM. The event commenced with a warm welcome by Dr. S. Kanmani, Associate Professor in the Department of Civil Engineering, who introduced the purpose and importance of the session. The event featured

expert insights from Dr. S. T. RAMESH, Professor at NIT Tiruchirappalli, who emphasized the significance of GATE 2024 for civil engineering aspirants.



## **EDP on Project Management Tools in Civil Engineering**

**Date: 20.09.2023 to 22.09.2023**

Executive Development Programme on Project Management Tools was organized by Department of Civil Engineering from 20.09.2023 to 22.09.2023 at Pallavi Hall. Around 50 Engineers participated and got benefitted from the programme. The primary objective of the program was to provide executives and professionals with a comprehensive understanding of advanced project management tools and techniques to enhance their project management skills. It was conducted over three days and featured a series of engaging sessions, workshops, and hands-on exercises.



## Expert Talk on “Waste Management in Coimbatore City”

**Date: 26.09.2023**

Biomining plays the major role in CCMC, CorBiomining is a biotechnological process that uses microorganisms to extract metals from ores and concentrates. This environmentally friendly and cost-effective method has gained popularity as an alternative to traditional mining techniques. Here are some key aspects of biomining: Microorganisms: Biomining primarily relies on the activity of naturally occurring or genetically modified microorganisms such as bacteria, archaea, and fungi.



## Field Visit to City Dumpyard, Coimbatore

**Date: 30.09.2023**

A city compost yard is a facility where organic waste materials, such as food scraps, yard waste, and other organic matter, are processed and converted into compost, a nutrient-rich soil conditioner. Composting is an eco-friendly waste management practice that reduces the amount of organic waste sent to landfills and incinerators while creating a valuable product for agriculture and landscaping.



## Field Visit to Pillur Water Treatment Plant

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**Date: 23.09.2023**

The one-day industry visit organized by the Department of Civil Engineering in collaboration with the ASCE (American Society of Civil Engineers) student chapter was a significant and educational experience for the students enrolled in Environmental Engineering I. This visit provided an invaluable opportunity for the students to bridge the gap between theoretical knowledge gained in the classroom and practical applications in the real world.



## Industry Visit to Platino Solids Industry and Mattupatty Dam

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**Date: 30.09.2023**

42 students and 2 Faculty members from the Department of Civil Engineering visited Mattupatty dam during the morning session. Insight into the importance of dam safety and the role of inspections and maintenance in ensuring structural integrity was discussed. Students were also exposed to the principles of hydrology and hydraulics as they relate to dam operation, spillways, and flood control. Awareness of the environmental impact of dams, including the effects on aquatic ecosystems, water quality, and local communities were also explored during the visit. Also the students and faculty members visited the site of building construction in Munnar by Platino solids. The project manager explained the procedure of construction of various components of the building in detail.



### **Mock Interview to Students by Indian Concrete Institute**

**Date: 25.09.2023**

The ICI Student Chapter in association with Office of Alumni Relation organized an alumni interaction program and mock interview session for 3rd year students on September 25, 2023, in Pallavi Hall. The session was conducted by Er. Deepak Kishore, Managing Director of DEE BLUE ASSOCIATES, who has over 05 years of experience in the Construction industry. The session began with an introduction from Er. Kishore about his career journey and the skills and qualities that are essential for success in the workplace. He then shared his insights on how to prepare for job interviews and answer common interview questions.



### **Orientation Program on ASCE Student Chapter**

**Date: 22.09.2023**

The ASCE Student Chapter of KPR Institute of Engineering and Technology organized an informative orientation program on September 22, 2023, at 3:15 PM in II Year Classroom. The event was designed for second-year students to familiarize them with the activities and

opportunities offered by the American Society of Civil Engineers (ASCE) student chapter. The program featured Mr. Manobharath, President of ASCE Student Chapter, and Ms. Vinumitra, Vice President, who conducted a demonstration for membership registration and introduced the ASCE student chapter. The event commenced with a warm welcome by the ASCE Student Chapter team, setting the tone for an informative session.



## **Engineer's Day Celebration Poster Presentation Contest**

**Date: 14.09.2023**

Poster presentations develop ability to communicate perceptively and concisely an important workplace skill. The purpose of your poster presentation will be shaped by how they are used in your discipline and by the assessment task itself. A total of 18 students (9 groups) were participated in this activity, Mr. JAYA BALAJEE .A, Project manager, L&T Constructions and Mr.V.Kavinkumar, Assistant Professor (Sr.G), Department of Civil Engineering were the judges for this activity. The objective of the competition was to ignite the fire of imagination and creativity in the students.



## Visit to CSIR – Structural Engineering Research Centre

**Date: 26.09.2023**

A Total of 10 ME Students along with two faculty members visited SERC on 26th September commemorating the open day celebration at the Chennai campus. We were asked to visit five laboratories, Advanced Concrete Testing and Evaluation Laboratory, Advanced Materials Laboratory, Advanced seismic testing and Research Laboratory, Structural Engineering Laboratory, and Structural health monitoring Laboratory which is related to structural engineering. Explanations of the recent advancements and the technologies used in the field of civil engineering were elaborated in detail by the resource persons.



### Faculty Participation

S.No	Name of the Faculty	Event Name	Date	Organizing Institute
1	Mr. D. Vivek	Module 8	01/09/2023 to 02/11/2023	NITTT
2	Mr. D. Vivek	Module 7	01/09/2023 to 02/11/2023	NITTT
3	Mr. D. Vivek	Module 6	01/09/2023 to 02/11/2023	NITTT
4	Ms. K. Dhivya	Module 1 - Orientation Towards Technical Education and Curriculum Aspects	01/09/2023 to 01/11/2023	NITTT

5	Mr. S. Yuvaraj	Certification Course Module 6- Student Assessment and Evaluation	01/09/2023 to 31/10/2023	NITTT
6	Mr. S. Yuvaraj	Certification Course Module 5 - Technology Enabled Learning And Lifelong Self Learning	01/09/2023 to 31/10/2023	NITTT
7	Mr. S. Yuvaraj	Certification Course Module 4 - Instructional Planning And Delivery	01/09/2023 to 31/10/2023	NITTT
8	Mr. S. Yuvaraj	Fundamentals of Machine Learning and Deep Learning	25/09/2023 to 29/09/2023	NITTTR, Kolkata
9	Mr. V. Kavinkumar	Preparatory Course for IGBC AP Examination	07/09/2023 to 10/10/2023	Udemy
10	Dr. S. Kanmani	8 Day National Level FDP on Research Methodology using CHATGPT And AI Tools	21/09/2023 to 29/09/2023	Kerala State Higher Education Council
11	Mr. S. Yuvaraj	STP Program on Recent Trends and Future Scope in Civil Engineering	11/09/2023 to 15/09/2023	National Institute of Technology, Jamshedpur
12	Mrs. R. Kavitha	I-CU Contest 2023	01/09/2023 to 08/09/2023	L&T; Construction
13	Dr. G. Anusha	IEI- Engineer's Day Celebration	15/09/2023	PSG college of Technology
14	Mr. P. Kalaivanan	Sustainability and Practices - A Timeline Requirement of the Construction Industry	07/09/2023	QCRETE Readymix India Pvt.Ltd
15	Ms. K. Dhivya	Module 2	01/09/2023 to 01/11/2023	NITTT
16	Ms. K. Dhivya	Module 3	01/09/2023 to 01/11/2023	NITTT

## Faculty Publications

- **Gopi Rajacmanickam, Dr. R. Saravanakumar and et al published paper on the title “Influence of Presaturated Coconut Fibre Ash Pellets in Concrete” in Revista Materia.**
- **Deepika S, Dr. S. Anandakumar and et al published paper on the title “Performance Appraisal of Supplier Selection in Construction Company with Fuzzy AHP, Fuzzy TOPSIS: and DEA – A Case Study based Approach.**

## Student Participation

S.No	Name of the Student	Event Name	Date	Organizing Institute
1	Vasanth K	EKKI Water Technology	23/09/2023	KPRIET
2	Kathir Eswar L K M	EKKI Water Technology	23/09/2023	KPRIET
3	Logeshwaran A	EKKI Water Technology	23/09/2023	KPRIET
4	Vinumitra G	SEPA	17/09/2023 to 22/10/2023	SEPA
5	Praveen J	Ideathon	23/09/2023	KPRIET
6	Sandhiya P	Application of AI in Healthcare	30/09/2023	KPRIET
7	Sri Sanjai B	INTUIT 2023	20/09/2023	PSGCAS
8	Surendar K	Quiz Competition	20/09/2023	PSG Institute of Technology
9	Aadhithya V P	Quiz	20/09/2023	PSG CAS and Shankar IAS Academy
10	Dhanush G R	INTUIT 2023	20/09/2023	PSG CAS
11	Aditya G S	INTUIT 2023	20/09/2023	PSG CAS Coimbatore
12	Kalki M J	INTUIT 2023	20/09/2023	PSG College of Arts and Science
13	Santoshi B	L&T; I-CU Contest 2023	08/09/2023	L&T; Construction
14	Mohamed Ameen M I	Aqua Ascend	04/09/2023 to 08/09/2023	L&T; Construction
15	Thaniska R	RDC Selection Camp	04/09/2023 to 13/09/2023	TNAU

16	Ruthramoorthy V	I - CU Contest	08/09/2023	L&Tt Constructions
17	Vasanthan S K	I-CU Contest 2023	08/09/2023 to 08/11/2023	KPRIET
18	Nagajothi P	IE(I)	29/09/2023 to 30/09/2023	KPRIET
19	Prasannakumar S	Robo Race	22/09/2023 to 25/09/2023	Indian Institute of space science and technology
20	Keerthiga G	State Level Inter Collegiate Women Volleyball Tournament	26/09/2023 to 27/09/2023	Dr.NGP Institute of Technology
21	Kavin Dharshini S	Zone 9 Ball Badminton Tournament	25/09/2023	Anna University
22	Yuva Shri S	Anna University Zone – IX Basketball Tournament	24/09/2023	KPRIET
23	Sri Vidyarth A K	Anna University Badminton Men"STournament	23/09/2023 to 24/09/2023	Anna University
24	Aarthi G	Hangover in Conscienia 2023	23/09/2023 to 25/09/2023	Indian Institute of Space Science and Technology
25	Avinesh S	Hangover in Conscienia 2023	23/09/2023 to 25/09/2023	Indian Institute of Space Science and Technology
26	Dhinesh Kumar N	Conscientia	23/09/2023 to 25/09/2023	Indian Institute of Space Science and Technology
27	Elavenil M	Badminton Men Tournament	23/09/2023 to 24/09/2023	KPRIET
28	Gokul Ranjith A	Anna University Badminton Men Tournament	23/09/2023 to 24/09/2023	KPRIET
29	Jegan S	District Meet 2023	09/09/2023 to 10/09/2023	Delhi Public School
30	Kavin Dharshini S	Second South India Karate Championship 2023	09/09/2023 to 10/09/2023	South India Karate Federation
31	Praveenkumar M	Athletics	04/09/2023 to 05/09/2023	Alagappa university

32	Ajayaakash V	Chandrayan 3 Mahaquiz	07/09/2023	My Government
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### Consultancy Activities

Sl.No	Name of the Laboratory	Amount received (Rs)
1	Concrete and Highway Laboratory	13,688
2	Strength of Materials Laboratory	5,592
<b>Total</b>		<b>Rs. 19,280 /-</b>