

# ASTHRA

MAY 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

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

- Commitment to offer value-based education and enhancement of practical skills
- Continuous assessment of teaching and learning processes through scholarly activities
- Enriching research and innovative activities in collaboration with industry and institute 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. 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

### Let's Experience Engineering

**Date: 13.05.2023**

The programme was organized exclusively for the faculty members of Department of Civil Engineering, to give in depth knowledge about the facilities available at our experience engineering centre which will improve their teaching learning practices and enhance the learning curiosity of our students. Session was mainly focussed on explaining the facilities that are made available at our experience engineering. Mr. S. Yuvaraj, Centre Manager, Experience Engineering explained the details of the various exhibits along with specification and technical data which will be useful for the teaching faculty members to showcase a different innovative teaching learning skill.



### Predicting Structural Durability with Advanced AI Techniques

**Date: 15.05.2023**

On May 15, 2023, a guest lecture on "Predicting Structural Durability with Advanced AI Techniques" was conducted by Dr. N Yuvaraj, an esteemed expert in the field of AI and structural engineering, at The Legend, KPR Institute of Engineering and Technology, Coimbatore. The lecture aimed to provide an in-depth understanding of how advanced AI techniques can be applied to predict the durability of various structures, ultimately leading to improved safety, maintenance strategies, and cost savings.



## Nesti to Skyscraper

**Date: 19.05.2023**

The event aimed to explore and promote the integration of smart home applications, specifically AI in building, skyscrapers and efficiency in construction management processes. The event began with an opening ceremony that included a welcome address and vote of thanks by students respectively. The chief guest highlighted the importance of advanced materials in construction and the potential benefits of Nesti to skyscrapers.



## Memorandum of Agreement

**Date: 19.05.2023**

KPR Institute of Engineering and Technology and Wonders Inc, Coimbatore signed a MOA on 19.05.23 at Marigold for the Constuction of an innovative building named BIOMIMIC INNOVATION CENTRE Biomimicry. IIT-Madras has also created a community of biomimicry enthusiasts who are exploring opportunities in research, entrepreneurship, new products, processes, and systems. It is to hold a biomimicry challenge to provoke, sustainable ideas from young minds. The UN Sustainable Development Goals could provide students with challenges for which they could design solutions using biomimicry.



## Three Days Learning Experience Design Workshop

**Date: 23.05.2023 to 25.05.2023**

The Learning Experience Design (LXD) Workshop conducted for the faculty members of the Civil Engineering Department was a remarkable event held over three consecutive days from May 23rd to 25th. The workshop aimed to empower participants with the knowledge and skills to create immersive and transformative learning experiences for their students. In addition to covering advanced topics such as converting activities into experiences, pillars of a learning experience, design philosophies, and hormonal simulations, the workshop provided a platform for faculty members to explore innovative teaching methodologies.



### Faculty Publications

- **K Dhivya, G. Anusha, S. Vinoth and et al** published paper titled “Steel Slag’s effect on concrete mechanical properties and durability” in Materials Today Proceedings.
- **S Logeshwaran and et al** published paper titled “Smart Materials for construction of bus terminus in India” in Materials today proceedings.
- **Meenakshi B S and et al** published paper titled “X-Ray diffraction study on microbial calcite precipitation in concrete with *Bacillus Subtilis* and *Bacillus Halodurans*” in Materials Today Proceedings.

### Faculty Participation

S.No	Name of the Faculty	Event Name	Date	Organizing Institute
1	Mr. Vinoth S	How to prepare your manuscript?	28.05.23	Elsevier
2	Mr. Vinoth S	One day international workshop on innovation in the construction materials and techniques	17.05.23	SRM institute of Science and technology
3	Ms. Meenakshi B S	Product implemented at the village (kaduvettipalayam)	22.05.23	KPRIET and UBA
4	Mr. Yuvaraj S	FDP on futuristic trends in civil engineering	17.05.23 to 21.05.23	Marri Laxman Reddy institute of Technology and Management



## Students Participation

S.No	Name of the Faculty	Class	Event Name	Date	Organizing Institute
1	Nandhika E	III A	Smart cities – management of smart urban infrastructures	11.05.2023	COURSERA
2	Nandhika E	III A	Mastering bitumen for better roads and innovative applications	11.05.2023	COURSERA
3	Navinkumar R	III A	Mastering bitumen for better roads and innovative applications	10.05.2023	COURSERA
4	SANTOS KUMAR	II ME	SERB sponsored international conference on technological advancements in materials and manufacturing for industrial environment	05.05.23 to 06.05.23	KPRIET

## ISR Activities by Faculty Members

S.No	Name of the Industry	Name of the Faculty(s)
1.	Donating bureau table to Chinniyampalayam govt school	Dr. G. Anusha, Mr S Elavarasan Dr R Saravanakumar

## Consultancy Activities

Sl.No	Name of the Laboratory	Amount received (Rs)
1	Concrete and Highway Laboratory	6,800
2	Strength of Materials Laboratory	3,068
3	BIM Lab	11,000
<b>Total</b>		Rs. 20,868

## Department Activities

### Site Visit to RMC Plant at Chinniyampalayam for I Year Students



### HoD Interaction with I Year Students



**Smart Rain Gauge implemented at the village (kaduvettipalayam)**



**Placement Record (2019 – 2023 Batch)**

Department of  
**Civil Engineering**  
Accredited by NBA

**Placement Record**  
(2019 - 2023 Batch)

**KPR Institute of Engineering and Technology**  
Learn Beyond (Autonomous NAAC 'A')

**cognizant**

HARISH NATARAJAN T   DHANAGOPAL K   DHILIPAN G

**Infosys**

TAMILMANI P   KODEESWARAN M

**EXTRA MARKS**

ANCY DEENA B   DHARANI M   NARMADHA R   SARANYA R

**Ayari**

ARUN ARVIND K K   CHIRANJEEVI M   DHILIPKUMAR A   JAGATHEESWAR K   NAVEEN KUMAR S S   NITHISHKRISHNAA K   SATHIYAPRIYA N   SWATHIKA M   VARSHITHA K   MANO PRATHAP A

**INFINUSTECH**

DIVYABHARATHI P   KEERTHIGA G

**KNRC**

KISHOR R   THIRUMALAI KARTHIK M   SYLESH S

**TELMAGE**

MANOJ K   PRANESHWAR C

**Plumeria**

NANDITHA B   PREETHI R   JOTISHWARAN R

**BYJU'S**

**A**

SANTHOSH KUMAR D   UMAPRABHAKARAN P

**STEELE**

MANIKANDAN M   HARIMUTHU M

**STEEL**

SANTHOSH M   NITIN M

**VDart**

ARAVIND MATHAVAN B   BOOPATHY K   PRABHAKARAN M

**C**

NITHISHWARR S N S   SANTHOSH KUMAR T

**M**

POORNAPUSHKALAPRIYA G

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For admission contact : **99420 66434**

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