

ASTHRA

April 2024

The Newsletter of

Department of Civil Engineering



KPR Institute of
Engineering and
Technology

Learn Beyond

(Autonomous, NAAC "A")

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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 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

Online Workshop on Sustainable and Lean Construction

Date: 12.04.2024

S. Jeyachandran, Senior Vice President, Marutham Group gave an insightful talk that delved deep into the principles and practices of sustainable and lean construction. He equipped the students with knowledge on how to optimize resource utilization, minimize waste throughout the construction process, and design structures that are environmentally friendly. Interactive elements, like Q&A sessions or case studies, further enriched the learning experience by allowing students to engage with Dr. Jeyachandran's industry expertise. This valuable exposure empowered the students to make informed choices in future projects, contributing to a more sustainable construction industry overall.



Industry Conclave 2024

Date: 13.04.2024

Around 35 industry delegates from leading civil engineering associations and organizations were invited for the conclave. Chief guest Er. Kabilan Devarajan addressed the gathering stating the different verticals in civil engineering domain with its scope. He also highlighted that multidisciplinary and interdisciplinary approaches of problem solving are essential and important. He mentioned about the opportunities available for young engineers in various infrastructure development projects and suggested to equip themselves to be industry

ready. All the invited industry delegates were honoured by the chief guest and our principal Dr. D. Saravanan. Invited delegates from various civil engineering associations and organizations interacted with the students on the latest trends, technological advancement and opportunities.



One Day Seminar on Sustaincon : Bridging Ideas for Greener Future

Date: 27.04.2024

The topic of ' Green Building – Focus areas ' was expertly presented by Mr Yusuf Turab, Managing Director, Inhabit and Buildscapes, Coimbatore. During this session, he provided valuable insights into the diverse focus areas within the domain of sustainable construction. By addressing key aspects such as energy efficiency, water conservation, materials selection, indoor environmental quality, site planning, and lifecycle assessment, the session underscored the holistic approach required to achieve truly sustainable built environments. In session II, the topic of 'Sustainable Environment using Solar Energy' was presented by Mr L R Venkatesh, Managing Director, Vesat Renewables Private Limited, Coimbatore. He provided a comprehensive overview of the role of solar energy in promoting environmental. He highlighted the importance of accelerating the adoption of solar energy as a key strategy to mitigate climate change, reduce environmental impact, and foster energy independence. This was followed by Paper Presentation session.



Industry Visit by Students

Visit To EKKI Pumps

Date: 08.04.2024

Students of II year, Department of Civil Engineering visited EKKI Pumps, Coimbatore. During the visit the students visually saw the manufacturing, assembly and testing of pumps and gained insights into the different types of pumps. The students got an opportunity to interact with Industry professionals, enhancing the overall value of the visit, which would be highly advantageous for their academic development.



Visit to SKV Constructions

Date: 06.04.2024

Department of Civil Engineering in association with SKV Constructions organized hands-on- training on “Earthen Building Construction and its Techniques” for the students of III year, Department of Civil Engineering. Er. J. Vijaykumar, Proprietor, SKV Constructions,

provided comprehensive guidance on rammed earth wall construction methods. The students learned about formwork preparation, soil compaction techniques, and finishing processes. Practical demonstrations helped the students understand the key principles of rammed earth construction. Students expressed enthusiasm and gained practical knowledge in cob wall construction, rammed earth techniques, and CSEB production. They also gained awareness about the environmental and sustainability benefits of earthen building materials and techniques.



Faculty Publications

- **K.S.Elango, S. Yuvaraj, R.Saravanakumar, D. Vivek, V. Kavinkumar**, published a book chapter titled "Properties of self-compacting light weight aggregate concrete"

Faculty Participation

S. No.	Name of the Faculty	Type of Program	Title of the Program	Organising Institute	Date
1.	Dr Anusha G	Conference	3 rd International Conference on Digital Tools and Technologies for Sustainable Construction- Digitechcon 24	Sona College of Technology	04/04/2024 to 05/04/2024
2.	Dr Anusha G	Webinar	Carbon Sequestration Techniques and their Applicability for Low Carbon Built Environment	INNOWELL	25/04/2024
3.	Mr Kalaivanan P	FDP	Microsoft Power Bi Data	ICT Academy	22/04/2024

			Analyst Associate		to 26/04/2024
4.	Dr Anusha G	Conference	International Conference on Digital Tools and Technologies for Sustainable Construction-Digitechcon 24	Sona College	04/04/2024 to 05/04/2024
5.	Dr Kanmani S	Resource Person	Guest Lecture on Role of AI in Waste Management	Sona College of Technology	03/04/2024
6.	Dr Kanmani S	Resource Person	Guest Lecture on Intelligent Irrigation System - An IoT based Approach	Sona College of Technology	03/04/2024
7.	Ms Meenakshi B S	Conference	5th International Conference on Sustainable Environment and Civil Engineering [ICSECE – 2024]	Eswari College of Engineering	17/04/2024 to 18/04/2024

Students Participation

S.No	Name of the Student	Year	Title of the Program	Organising Institute	Date
1.	Saroj Adhikari	II	TECHNOVATION - CADVENTURE	Coimbatore Institute of Technology	05/04/2024
2.	Saroj Adhikari	II	TECHNOVATION - Quiz Era	Coimbatore Institute of Technology	05/04/2024
3.	Karthik P	III	TECHNOVATION - Quiz Era	Coimbatore Institute of Technology	05/04/2024 to 06/04/2024
4.	Kamilas K	III	TECHNOVATION – Quiz Era	Coimbatore Institute of Technology	05/04/2024 to 06/04/2024
5.	Madhubalan M	III	TECHNOVATION – Quiz Era	Coimbatore Institute of Technology	05/04/2024 to 06/04/2024
6.	Venkatesh S	III	TECHNOVATION-	Coimbatore Institute of	05/04/2024

			Paper War	Technology	to 06/04/2024
7.	Venkatesh S	III	TECHNOVATION – Quiz Era	Coimbatore Institute of Technology	05/04/2024 to 06/04/2024
8.	Venkatesh S	III	Jfinagles 2024- Paper Presentation	JCT College of Engineering and Technology	03/04/2024
9.	Mano Bharath P	III	TECHNOVATION – Quiz Era	Coimbatore Institute of Technology	05/04/2024 to 06/04/2024
10.	Venkatesh S	III	TECHNOVATION – Poster Presentation	Coimbatore Institute of Technology	05/04/2024
11.	Venkatesh S	III	TECHNOVATION – Code Cracking	Coimbatore Institute of Technology	05/04/2024
12.	Kathir Eswar L K M	II	TECHNOVATION - CADVENTURE	Coimbatore Institute of Technology	05/04/2024
13.	Kathir Eswar L K M	II	TECHNOVATION – QUIZ ERA	Coimbatore Institute of Technology	05/04/2024 to 06/04/2024
14.	Saroj Adhikari	II	Hands on Workshop on Autodesk Revit	USAM CADSOFT INDIA	23/04/2024
15.	Aditya G S	II	Hands on Workshop on Autodesk Revit	USAM CADSOFT INDIA	23/04/2024
16.	Saroj Adhikari	II	KALAM 2024- CADD Clash	Sri Shakthi Institute of engineering and technology	26/04/2024
17.	Guhan S	II	Webinar - 3D Printing Concrete : An Introduction	Indian Concrete Institute Coimbatore centre	26/04/2024
18.	Tamilvanan M	II	Webinar - 3D Printing Concrete : An Introduction	Indian Concrete Institute Coimbatore centre	26/04/2024
19.	Praveen J	II	Webinar - 3D Printing Concrete : An	Indian Concrete Institute Coimbatore centre	26/04/2024

			Introduction		
20.	Hari Prasath K	II	Webinar - 3D Printing Concrete : An Introduction	Indian Concrete Institute Coimbatore centre	26/04/2024
21.	Kalki M J	II	Webinar - 3D Printing Concrete : An Introduction	Indian Concrete Institute Coimbatore centre	26/04/2024
22.	Subash Krishnan V	II	Hands on Workshop on Autodesk Revit	USAM CADSOFT INDIA	23/04/2024
23.	Hari Prasath K	II	Hands on Workshop on Autodesk Revit	USAM CADSOFT INDIA	23/04/2024
24.	Dharanidharan M	I	KALAM 2024 - Workshop	Sri Shakthi Institute of Engineering and Technology	26/04/2024
25.	M D Akram	II	Hands on Workshop on Autodesk Revit	USAM CADSOFT INDIA	23/04/2024
26.	Saroj Adhikari	II	Expert Talk - Application of IoT in Civil Engineering	Madanapalle Institute of Technology & Science	23/04/2024
27.	Indirajith L	III	LUNARA 24	Bannari Amman Institute of Technology	12/04/2024 to 13/04/2024
28.	Ragesh S	III	Sports- Cricket	KPRIET	25/04/2024
29.	Fathimathul Fuhaima P P	IV	Conference - International Conference on Advances in Civil Engineering	Jct College of Engineering and Technology	26/04/2024
30.	Visalatchi S	III	TECHNOVATION- Paper War	Coimbatore Institute of Technology	05/04/2024
31.	Visalatchi S	III	TECHNOVATION - Quiz Era	Coimbatore Institute of Technology	05/04/2024
32.	Priyanka M	III	Webinar - 3D Printing Concrete : An Introduction	Indian Concrete Institute Coimbatore centre	26/04/2024
33.	Priyanka M	III	TECHNOVATION -	Coimbatore Institute of	05/04/2024

			Quiz Era	Technology	
34.	Thaniska R	III	TECHNOVATION - Quiz Era	Coimbatore Institute of Technology	05/04/2024
35.	Thaniska R	III	TECHNOVATION – Code Cracking	Coimbatore Institute of Technology	05/04/2024
36.	Shree Bhuvanesh Krishna D K	III	TECHNOVATION - CADVENTURE	Coimbatore Institute of Technology	05/04/2024
37.	Pranitha R	III	NPTEL	NPTEL	27/04/2024
38.	Ragul D	III	NPTEL	NPTEL	27/04/2024
39.	Hariharan T	III	NPTEL	NPTEL	27/04/2024

Students Achievement

S.No	Student	Class	Achievement	Organizer
1.	Saroj Adhikari	II	II prize – CADVENTURE	Coimbatore Institute of Technology
2.	Madhubalan M	III	I Prize – QUIZERA	Coimbatore Institute of Technology
3.	Venkatesh S	III	III Prize – Paper Presentation	JCT College of Engineering and Technology
4.	Mano Bharath P	III	I Prize – QUIZERA	Coimbatore Institute of Technology
5.	Saroj Adhikari	II	I Prize- CADD Clash	Sri Shakti Institute of Engineering and Technology
6.	Indirajith L	III	II Prize- Problem Solving Contest	Bannari Amman Institute of Technology



III Prize in Problem Solving Contest – LUNARA



II prize – CADVENTURE



I Prize – QUIZERA



I Prize- CADD Clash

Consultancy Activities

S.No	Name of the Laboratory	Name of the faculty involved	Title of the Work/Test	Name /Industry/ Organization	Amount received (Rs)
1	Concrete Laboratory	Mr. P. Kalaivanan	NDT for Concrete	Arrow Structures	5900
2	-	Mr. S. Yuvaraj	Pre-Employment Residential Training Programme	CEBACA	43300
3	Strength of Materials Laboratory	Dr.K.S.Elango	Material characterization	Paavai Engineering College	1,652
4	Strength of Materials Laboratory	Dr.K.S.Elango	Material characterization	Paavai Engineering College	944
5	Strength of Materials Laboratory	Dr.K.S.Elango	Material characterization	CIT	236
6	Concrete Laboratory	Dr.R.Saravanakumar	Concrete, Flyash Characterization	Subbu Builders	7965
7	Concrete Laboratory	Mr. P. Kalaivanan	NDT for Concrete	Arrow Structures	5900
Total Amount (Rs.)					65897