

ASTHRA

(July, August, September 2025)

The Newsletter of
Department of Civil Engineering



Learn Beyond

KPR Institute of
Engineering and
Technology

(Autonomous, NAAC "A")

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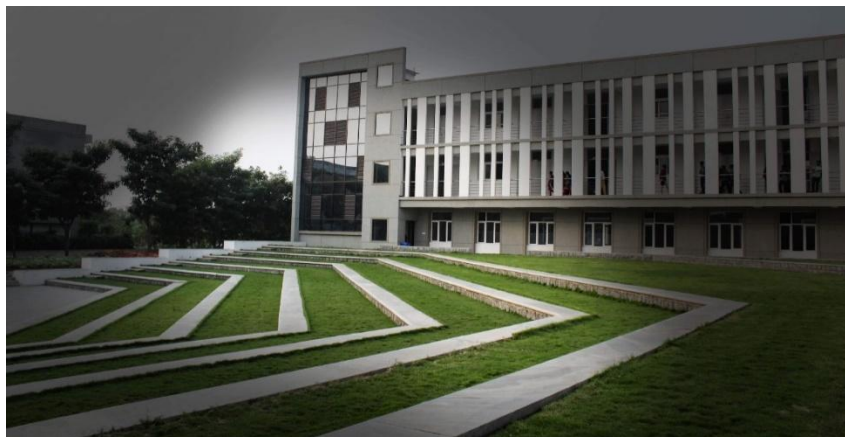
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IN THIS ISSUE



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 260 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, IGBC to gain knowledge through various programmes conducted by these bodies across the Nation.

Vision of the Department

To be recognised in Civil Engineering through quality education, research and innovation for the sustainable developments of the society

Mission of the Department

- Provide holistic education to students on emerging technologies in Civil Engineering
- Promote research and consultancy activities
- Instil in individuals a sense of ethical values and lifelong learning

Programme Organised

Inauguration of Civil Engineering Student Association

Date: 09.08.2025

The Department of Civil Engineering at KPR Institute of Engineering and Technology organized the Civil Engineering Student Association Inauguration for the academic year 2025–26 on 09th August 2025. The program commenced with a welcome address by Dr. K. S. Elango, Associate Professor & Head of the Department, followed by the presentation of the annual plan by Mr. E. Dineshkanna, President of the Association. The department achievers were then felicitated for their notable accomplishments. The Chief Guests, Mr. J. Vimal Devaprabhu, Manager – Training & Support, and Mr. S. Sivalingam, Application Engineer, USAM CADSoft India Pvt. Ltd., Coimbatore, addressed the gathering with an insightful talk on “Civil Engineering Software and Its Scope.” Their session emphasized the significance of CAD/BIM tools, career prospects, and industry expectations. Special highlights included the upcoming Autodesk Revit Architecture Certification Course, design competition training, and the provision of 2,000 free Autodesk software licenses for students. The event concluded with a vote of thanks proposed by Ms. R. Ashlin Roshma, Vice President of the Association, followed an expert lecture session. The inauguration was distinguished by excellent coordination among the office bearers and active participation from both faculty and students, setting a promising tone for the academic year’s activities



FDP on Revit Architecture and Fusion

Date: 28.08.2025

A Faculty Development Program (FDP) on Autodesk Fusion and Autodesk Revit, organized by the Centre for University Industry Collaboration (CUIC), Anna University, in collaboration with Autodesk and executed by USAM CADSoft, was successfully conducted at KPR Institute of Engineering and Technology, Coimbatore, from 28th to 30th August 2025. The program witnessed active participation from faculty members across engineering institutions in the Coimbatore zone. Each college nominated four faculty members—two from Mechanical Engineering and two from Civil/Architecture—ensuring multidisciplinary representation. The FDP featured hands-on training and expert-led sessions, providing participants with practical exposure to advanced design and modeling tools. The highly interactive sessions emphasized innovative teaching methodologies and the development of industry-relevant skills. Participants greatly appreciated the structured approach, live demonstrations, and real-time exercises, which significantly enhanced their technical knowledge. At the conclusion of the program, certificates of participation were awarded by the Autodesk Learning Partner, acknowledging the successful completion of the training. Overall, the FDP proved to be a valuable platform for knowledge sharing and skill enhancement, equipping faculty members with the expertise to effectively mentor students in emerging design technologies.



ASCE Connect

Date: 19.09.2025

The ASCE Student Chapter of KPR Institute of Engineering and Technology organized ASCE Connect for the first-year Civil Engineering students on 19th September 2025. During the session, the office bearers of the Student Chapter interacted with the freshers and provided an overview of the American Society of Civil Engineers (ASCE). They emphasized the significance of professional membership, outlining its benefits and the diverse opportunities it offers, including technical events, competitions, networking, and knowledge-sharing platforms. The office bearers also guided the students on the membership enrollment process and encouraged them to actively engage in upcoming ASCE initiatives at both institutional and global levels. The session enabled first-year students to recognize the value of ASCE membership and motivated them to take their first step towards becoming part of the global civil engineering community.



One Credit Course on 3D Modelling and Rendering for Civil Projects

Date: 11.09.2025 & 12.09.2025

The Department of Civil Engineering, in association with JD Education and Training, successfully organized a One Credit Course on “3D Modelling and Rendering for Civil Projects using Autodesk 3ds Max” on 11th & 12th September 2025 at MAAC, KPRIET. The course was designed to provide students with practical exposure to the fundamentals of 3D modelling and rendering in the context of civil engineering projects. Expert trainers from JD Education and Training facilitated the sessions, covering topics such as interface navigation, terrain and structural modelling, application of materials and textures, lighting techniques, and high-quality rendering workflows. The highly interactive sessions combined lectures, live demonstrations, and hands-on exercises, enabling students to develop project-based models, apply realistic visualization settings, and generate photorealistic outputs. A total of 24 Civil Engineering students actively participated in the program. The course outcomes included enhanced proficiency in Autodesk 3ds Max, improved capabilities in design visualization and communication, and stronger portfolios to support placements and higher studies. Student feedback reflected that the training was highly beneficial in bridging academic learning with industry-relevant applications. Overall, the program was a resounding success, and the Department plans to organize more such skill-oriented credit courses in the future to further enrich students’ learning experiences.



Faculty Publications

- **Logeswaran Selvaraj**, Anusha Gururajan, Sampathkumar Velusamy, Anandakumar Subbaiyan published a paper titled “Eco friendly paver blocks with geotextiles for pedestrian footpaths and smart materials for bus station infrastructure” in Revista Materia
- **Kanmani S** published the book chapter “Utilization of Various Industrial By Products in Construction Industry as Binder, Mortar and Concrete”
- **S. Elavarasan**, Leena Singh, K. Kalaivani, J, Rajini, Suranjith Roy published a book chapter “Streamlining Administrative Tasks to Boost Teacher Productivity using AI Driven Solutions”
- **Yuvaraj Subramaniyan** published a book chapter titled “ Sustainable and Environment friendly manufacturing”
- **Elavarasan S**, P. Mukesh, balaji Govindan, S. Sethuram published a research article titled “Exploring the performance and sustainability of cement concrete incorporating silica ash as partial replacement of cement”
- **Anusha G**, Dineshkumar Rajan published a paper titled “ An Integrated service life prediction model for chloride- induced corrosion in reinforced concrete structures” in European Journal of Environmental and Civil Engineering
- **Elavarasan S**, Prabakaran Ellappan, Malaravan Manoharan, Chandra Devi Raman published a paper titled “ Sustainable Application of recycled brick aggregates in concrete: evaluation of mechanical, durability and environmental properties” in Revista Materia

- **Kavinkumar Vasantharaj**, Balasubramaniam Nachimuthu, Elango Krishnan Soundararajan, Saravanakumar Ramasamy published a paper titled “ Strength prediction of hybrid fiber reinforced self- compacting concrete using optimal recurrent neural network” in Revista Materia
- **Kavitha R** published a book chapter titled “ Design of Trusses- An Overview”
- **Kavitha R**, Keetiga G, Suryakrishnan D, Santhakrishnan N, Arunkumar A published a paper titled “ Stilt floor optimization based on stiffness and Column Contribution” in Springer Nature
- **Logeswaran S**, Anusha G, Bhuvaneshkumar M, Anandakumar S published a paper titled “ Prioritising bus station operational factors using machine learning based principal component analysis” in Emerald Publishing
- **Saravanakumar Ramasamy**, Arunvivek, Logeshkumar Mohan Raj, rajeskumar Viswanathan, Bragadeeswaran Thangavel published a paper titled “ Influence of metakaolin and residual cement sludge from ready-mix concrete on strength and durability properties of concrete microstructure” in Revista Materia
- **Yuvaraj S**, Ashwathi R, Mohanraj A, Seenirajan M, Dinesh A published a paper titled “Performance analysis of fibre Reinforced Concrete with a binary Blend of Steel and Polyester Fibres” in Science Direct
- **Indhiradevi P**, Krishnasamy R, Sakthikuar N, Gokul Sarathi P, Silvasundar R, Rameshkannan G published a paper titled “ Failure Investigation of Single bolt Glass Fiber Reinforced Polymer Angle member with Gusset plate under tensile loads” in Science Direct
- **Saravanakumar R**, Arunvivek G K, Elango K S, Balaji D, preetha Achuthan published a paper titled “ Durability properties of super absorbent polymers and polyethylene Glycol Added Self Curing Concrete- A state of Art Review” in Structural Integrity and Interactions of Materials in Civil Engineering structures
- **Anandaraj S**, Arunvivek G K, Pramod Kumar, Bheem Pratap, Ragasa Yadeta Sembeta published a paper titled “ Compressive strength modelling of cenosphere and copper slag based geopolymers concrete using deep learning model”
- **Kanmani S** published a book chapter “Utilization of various Industrial by products in construction industries Binder, Mortar and concrete” for the book titled “Waste Management and utilization for a sustainable Environment in Wiley

Faculty Participation

S. No.	Name of the Faculty	Type of Program	Title of the Program	Organising Institute	Date
1.	Dr. Saravanakumar R	Workshop	Lean Academic Conclave 2025	IIT Pallakad	11/07/2025 to 12/07/2025
2.	Mr. Vinoth S	Conference	Third International Conference on Construction Materials and Structures	IIT Tirupathi	01/07/2025 to 06/07/2025
3.	Dr. S. Kanmani	Certification Course	AICTE QIP Program on AI powered Computer Vision	NIT Warangal	08/07/2025 to 19/07/2025
4.	Dr. Saravanakumar R	Workshop	Gunvatta Yatra on NABL Accreditation & its Benefits	DRDO, COE , Bharathiar University campus,	29/07/2025
5.	Mr. Elavarasan S	Workshop	Lean Academic Conclave 2025	IIT Pallakad	11/07/2025 to 12/07/2025
6.	Mr. Elavarasan S	Workshop	Gunvatta Yatra on NABL Accreditation & its Benefits	DRDO, COE , Bharathiar University campus,	29/07/2025
7.	Mr. Elavarasan S	Resource Person	Santekfest'25	Sankara Polytechnic College	22/08/2025
8.	Mr. Elavarasan S	Resource Person	Building Your Future : CareerPathways for Aspiring Civil Engineers	Karpagam Academy of Higher Education	07/08/2025
9.	Mr. Yuvaraj S	ATAL FDP	Artificial Intelligence In Civil Engineering: a Multidisciplinary Approach	Pace Institute of technology and Science	18/08/2025 to 23/08/2025
10.	Dr. Rajeshkumar V	ATAL FDP	Artificial Intelligence In Civil Engineering: a Multidisciplinary Approach	Pace Institute of technology and Science	18/08/2025 to 23/08/2025
11.	Dr. Kanmani S	Workshop	Be a Great Mentor, to be a Good Teacher	KPRIET	28/08/2025 to 29/08/2025
12.	Dr. Dharmaraj R	FDP	Smart City Technologies and IoT	Sri Chandrasekhar endra Sarawathi	23/0/2025

				Viswa Mahavidyalaya	
13.	Dr. Dharmaraj R	Workshop	Be a Great Mentor, to be a Good Teacher	KPRIET	28/08/2025 to 29/08/2025
14.	Mr. Yuvaraj S	FDP	3 Days FDP on Integrating BIM Through Revit in Classroom	Autodesk	28/08/2025 to 30/08/2025
15.	Dr. Sarvanakumar R	FDP	Anna Univ & Autodesk 3 days FDP on Integrating BIM Through Revit in Classrooms	Autodesk	28/08/2025 to 30/08/2025
16.	Mr. Elavarasan S	FDP	FDP on Autodesk Revit 2024	Autodesk	28/08/2025 to 30/08/2025
17.	Mr. Kavinkumar V	FDP	Advancements in Construction Materials and Practices	Gokaraju Rangaraju Institute of Engineering and Technology	18/08/2025 to 22/08/2025
18.	Mr. Vinoth S	FDP	Smart Materials and Technologies for Durable Structures(Smtds'25)	R.V.R & J.C. College of Engineering	15/09/2025 to 19/09/2025
19.	Dr. Kanmani S	Resource Person	Circular Economy: Reducing Waste and Promoting Sustainability	Excel Engineering College	23/09/2025
20.	Dr. Kanmani S	Certification Course	Introduction to Machine Learning	NPTEL	September 2025
21.	Dr. Kanmani S	Certification Course	Python Programming	NPTEL	September 2025

Students Participation

S.No	Name of the Student	Year	Title of the Program	Organising Institute	Date
1.	Dharanidharan M	III	Certification course- Introduction to Cybersecurity	CISCO	22/07/2025 to 23/07/2025
2.	Saroj Adhikari	IV	Certification course - Interior design and site management	CMTI	22/08/2025
3.	Bhavya V B	II	Workshop- Development and application of special concrete	SRM Institute of Science and Technology, Chennai	19/08/2025 to 20/08/2025
4.	Bhavya V B	II	Certification course - Interior design and site management	CMTI	22/08/2025
5.	Suhita T	II	Certification course - Interior design and site management	CMTI	22/08/2025
6.	Kanishka C Y	II	Certification course - Interior design and site management	CMTI	22/08/2025
7.	Nandhini M	IV	Certification course - Interior design and site management	CMTI	22/08/2025
8.	Aadhithya V P	IV	Certification course - Interior design and site management	CMTI	22/08/2025
9.	Vedashree K S	IV	Certification course - Interior design and site management	CMTI	22/08/2025

10.	Pooja V	II	Symci'25- Project Presentation	Muthayamma Engineering College, Namakkal	13/08/2025
11.	Pooja V	II	Symci'25- Paper Presentation	Muthayamma Engineering College, Namakkal	13/08/2025
12.	Pooja V	II	Certification course - Interior design and site management	CMTI	22/08/2025
13.	Rajalakshmi M	II	Certification course - Interior design and site management	CMTI	22/08/2025
14.	Pradeep C	II	Certification course - Interior design and site management	CMTI	22/08/2025
15.	Kavin Kishore V	II	Certification course - Interior design and site management	CMTI	22/08/2025
16.	Surenthar K	IV	Certification course - Interior design and site management	CMTI	22/08/2025
17.	Bhupesh R	IV	Certification course - Interior design and site management	CMTI	22/08/2025
18.	Ezhil Oviya N	IV	Certification course - Interior design and site management	CMTI	22/08/2025
19.	Aditya G S	IV	Certification course - Interior design and site management	CMTI	22/08/2025
20.	Saranya S	IV	Certification course - Interior design and site	CMTI	22/08/2025

			management		
21.	Yuva Shri S	IV	Certification course - Interior design and site management	CMTI	22/08/2025
22.	Ashlin Roshma R	IV	Certification course - Interior design and site management	CMTI	22/08/2025
23.	Rithika G	IV	Certification course - Interior design and site management	CMTI	22/08/2025
24.	Saroj Adhikari	IV	Certification course - Waterproofing	CMTI	12/09/2025
25.	Bhavya V B	II	Certification course- Waterproofing	CMTI	12/09/2025
26.	Pradeep C	II	Certification course- Precast Construction	CMTI	20/09/2025
27.	Aadhithya V P	IV	Talent Search Quiz Competition 2025	Coimbatore District All Civil Engineers Association	22/09/2025
28.	Nandhini M	IV	Talent Search Quiz Competition 2025	Coimbatore District All Civil Engineers Association	22/09/2025
29.	Aadhithya V P	IV	Cube Contest	Kongu Engineering College	29/07/2025
30.	Nandhini M	IV	Cube Contest	Kongu Engineering College	29/07/2025
31.	Sandhiya P	IV	Cube Contest	Kongu Engineering College	29/07/2025
32.	Mukunth P	II	Certification course- Precast Construction	CMTI	20/09/2025
33.	Sowmiyan M	III	Pixel 25- Lensplay/ Shotsphere	Kongu Engineering College	25/09/2025

34.	Jobi Matthew V	III	Pixel 25- Lensplay/ Shotsphere	Kongu Engineering College	25/09/2025
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Students Achievement

S. No	Student	Class	Achievement	Organizer
1.	Aadhithya V P	IV	I Prize- cube contest	Kongu Engineering College
2.	Nandhini M	IV	I Prize- cube contest	Kongu Engineering College
3.	Sandhiya P	IV	I Prize- cube contest	Kongu Engineering College
4.	Pooja V	II	II prize- Project Presentation	Muthayammal Engineering college
5.	Pooja V	II	I prize- Paper Presentation	Muthayammal Engineering college
6.	Aadhithya V P	IV	II prize- Talent Search Quiz Competition	Coimbatore District All Civil Engineers Association
7.	Nandhini M	IV	II prize- Talent Search Quiz Competition	Coimbatore District All Civil Engineers Association



National Level cube contest- Kongu Engineering College



Cube Contest

Consultancy Activities

Sl. No	Name of the Laboratory	Name of the faculty involved	Title of the Work/Test	Name /Industry/ Organization	Amount received (Rs)
1.	Concrete lab	Dr. R. Saravanakumar	Concrete Characterization	Ganaga Construction, Tirupur	885
2.	Structural Engineering Laboratory	Dr. S. Kanmani	Investigation on Structural Stability of residential building using rebound hammer and ultrasonic pulse velocity	Er.S.Prappu Dev, Arrow Structures, Coimbatore	11800
3.	Concrete lab	Mr. S. Yuvaraj Dr. R. Saravanakumar	Material Characterization of road pavement	Yaazh Homes, Coimbatore	10856
4.	Som Lab	Mr. S. Yuvaraj	Tensile Strength test of composite material		
5.	Concrete lab	Mr. S. Yuvaraj Dr. R. Saravanakumar	Material Characterization of composite material	Dr.A.Dinesh, SREC, Coimbatore	456660
6.	Structural Engineering Laboratory	Dr. S. Kanmani	Investigation on Structural Stability of residential	Er.S.Prappu Dev, Arrow Structures, Coimbatore	11800

			building using rebound hammer and ultrasonic pulse velocity		
7.	Structural Engineering Laboratory	Dr. S. Kanmani	Investigation on Structural Stability of residential building using rebound hammer and ultrasonic pulse velocity	Er.S.Prappu Dev, Arrow Structures, Coimbatore	11800
Total Amount (Rs.)					503801