

ASTHRA

February 2023



The Newsletter of
**Department of
Civil Engineering**



**KPR Institute of
Engineering and
Technology**

Learn Beyond

(Autonomous, NAAC "A")

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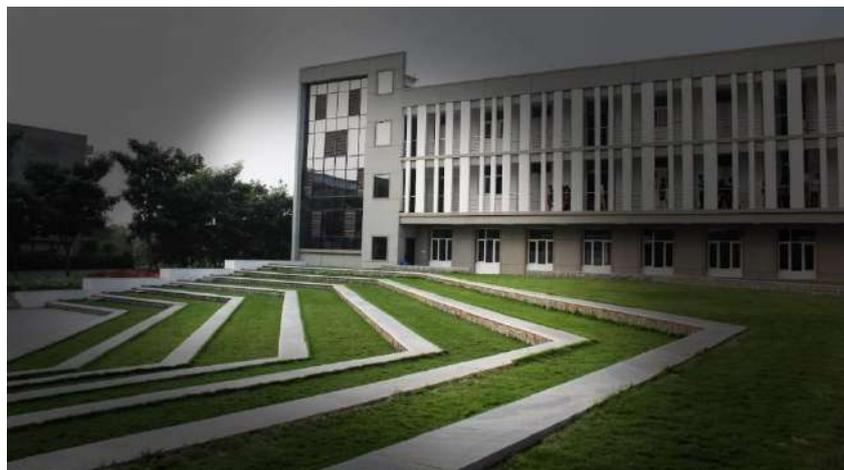
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About KPRIET

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 the 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 process through scholarly activities
- Enriching research and innovative activities in collaboration with industry and institute of repute
- Ensuring the academic process to uphold culture, ethics and social responsibility

About the Department

The Department of Civil Engineering of KPR Institute of Engineering and Technology, Coimbatore was established in the year 2009 with an annual intake of 60 students. In the year 2012, the annual intake was increased to 120. The Department has been elevated to its next pedestal by offering PG in Structural Engineering in the year 2014 with an annual intake of 18. 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

INDUSTRY CONNECT: INTERACTION BETWEEN EXPERIENCED CIVIL ENGINEERS AND BUDDING CIVIL ENGINEERS

Date: 14.02.2023

On 14th Feb 2023 Department of Civil Engineering organized an event "Industry Connect" an interaction between experienced civil engineers and budding civil engineers in association with CNI. The event chief guest Er. R. Ramakrishnan, B.E, President, Coimbatore Civil Engineers Association had given the Chief guest address. The session then started with discussion on the entrepreneurial opportunities and how to achieve a good position as young Civil Engineers. Er. G. Ganesh, Past President, COCENA, gave a brief knowledge sharing about structural engineering and its aspects in real time. Er. M. K. Anand, Student Chapter & Technical Committee Chairman, COCENA, had elaborated how a student should be trained from education to employment and provided a platform to discuss the point or questions among the engineers. The question-and-answer session was great and the experienced engineers answered all the questions posted by the young minds.



BIM WORKSHOP

Date: 16.02.2023 to 17.02.2023

The Department of Civil Engineering hosts a workshop on building information modeling during Fiesta 23. About 30 participants from various colleges took part in this workshop. Certificates for participants were issued and feedback forms for the same has been collected.



BRIDGE BUILDING WORKSHOP

Date: 17.02.2023

Civil engineers design and construct bridges to meet transportation needs related to traffic, commuting time and over-passing. Civil engineers consider the stresses and deformations in all the structural elements of the bridge during the design process. Material selection is another aspect of the design process. In this activity, students work as civil engineers to design, construct and test their bridge prototypes. In conclusion, students discuss the material properties of paper and compare bridge designs with performance outcomes.



CADD CONTEST

Date: 16.02.2023

The Department of Civil Engineering at KPR Institute of Engineering and Technology organized a CADD contest on February 16, 2023. The main objective of the contest was to assess the students' ability to design and draw building plans in accordance with the given requirements, as well as to test their creativity level in developing basic and advanced amenities in the construction sector. The contest was open to participants from various colleges in Tamil Nadu, including KCT, Kongu Engineering, Government College of Technology, PSG College, and KSR College, who competed online.



PAPER PRESENTATION

Date: 16.02.2023

The Department of Civil Engineering, KPR Institute of Engineering and Technology has conducted Paper presentation for external participants from various reputed institutions on 16th February 2023. The total participants registered was 23. Out of which 20 students were participated in the event. The best paper was selected by calculating the defined parameters of paper presentation. Based on the performance, presentation skill and technical contents as per the recent innovations in Civil Engineering, the best three paper was gifted with cash prize, certification, and memento.



POSTER PRESENTATION

Date: 16.02.2023

Department of Civil Engineering along with ASCE student chapter organized poster presentation for the external participants from various colleges in view of Feista'23. The poster presentation competition focused the themes on SDG 6 and 11. SDG 6 focuses on the topics Sustainable Management of water, Waste water Treatment and Recycling, 3R Process, Nanotechnology in water treatment and SDG 11 focuses on the topics Disaster risk reduction, sustainable transport, and sustainable cities. The students with best poster design and presentation were rewarded with memento and cash prizes in order to motivate them and to be successful person in their future endeavors.



SURVEY HUNT

Date: 16.02.2023

Department of Civil Engineering in association with Sangamam & Ignitron, the Clubhouses of KPRIET organized a Survey Hunt competition in "Fiestaa 2023" on 17th March 2023. Totally 20 participants from various institutions participated in the event. The first round consists of 10 questions. The second round consists of 25 questions. Mr. Dhanushkar & Mr. Sanjith Kavin, students from SNS College of Technology won the first prize of Rs.1000 & shield and Mr. Gnanasekaran & Mr. Dhayalan, students from Builders Engineering College won the second prize of Rs.500 & shield with merit certificates.



TECHNICAL QUIZ

Date: 16.02.2023

Department of Civil Engineering in association with Sangamam & Ignitron, the Clubhouses of KPRIET organized a Technical Quiz competition in "Fiestaa 2023" on 17th March 2023. Totally 12 participants from various institutions participated in the event. The first round consists of 10 questions & 4 teams have qualified for the next round. The second round consists of 15 questions and 3 teams have qualified for the next round. And third round consists of 10 questions. Mr. Sureshkumar & Mr. Faizal, students from Builders Engineering College won the first prize of Rs.1000 & shield and Mr. Abinav & Mr. Vijayboopathy, students from DR. Mahalingam College of Engineering and Technology won the second prize of Rs.500 & shield with merit certificates.



IDEATION TO IPR

Date: 22.02.2023

Department of Civil Engineering, KPR Institute of Engineering and Technology conducted expert talk on “Ideation to IPR” on 22.02.2023. The main aim of this expert talk is to make the students to aware about the IPR and innovations. Dr.D.Balaji, Assistant professor (Sl.Gr.), KPRIET, Coimbatore gave a brief presentation on Innovation and IPR to M.E.Structural Engineering Students. He also discussed about Patents, trademarks, copyrights, and trade secrets uses and its advantages in various fields. Intellectual property (IP) is a term referring to a brand, invention, design or other kind of creation, which a person or business has legal rights over. Copyright refers to the rights granted to the creators or copyright holders of original works.



PARENTS MEETING

Date: 24.02.2023

Along with the education and learning of students, a parent-teacher meeting is also an essential part. That will help in enhancing and boosting the child's engagement in the learning system. A parent-teacher meeting is an opportunity to share the academic progress, observation in the classroom and home, assessments, and their interaction with teachers, friends, etc. Department of Civil Engineering conducted parents meeting on 24th, February 2023 in Thanam Hall to share the achievements and activities of the department for the benefit of students.



VERNACULAR ARCHITECTURE

Date: 25.02.2023

The Event was organized by Department of Civil Engineering in association with the Career Development Cell and Industry Institute Partnership Cell having Er. S. Keerthana Proprietor Dhiran and Associates, Coimbatore. She explained clearly about the trends and importance of Vernacular Architecture with suitable case studies. Vernacular architecture is building done outside any academic tradition, and without professional guidance. This category encompasses a wide range and variety of building types, with differing methods of construction, from around the world, both historical and extant, representing most buildings and settlements created in pre-industrial societies. Vernacular architecture tends to be overlooked in traditional histories of design. Resource person also clarified the doubts raised by the students and interacted with them. Totally 6 faculty members and 126 students attended and were benefitted from the programme.



SEISMIC ANALYSIS & DESIGN OF STRUCTURES

Date: 27.02.2023

Ms. Kavitha started the workshop by discussing the basics of Seismic Analysis and Design of Structures. She explained the importance of designing structures to withstand the effects of earthquakes and the various factors that affect the seismic performance of structures. Then she discussed the various seismic design codes and standards used in India, including the Indian Standards (IS) and the Bureau of Indian Standards (BIS). She explained the importance of understanding these codes and standards to ensure that the structures are designed to meet the safety requirements.



EXPERT TALK

Date: 28.02.2023

KPR Institute of Engineering and Technology, Department of Civil Engineering & KPR International Center organized an expert talk on 28.02.2023 at Thanam Hall. The resource person is Professor U, Johnson Alengaram, Department of Civil Engineering, University of Malaya, Malaysia. Faculty members of the Civil Engineering Department attended the expert talk at The Legend at 9 am. Faculty members Interacted with Professor U, Johnson Alengaram. The keynote points are about the faculty exchange program, students exchange program, and other all possibilities of research collaborative work with the University of Malaya, Malaysia. Third-year students from the Department of Civil Engineering and the Department of Chemical Engineering Interacted with resource person about the various exchange programs and higher studies opportunities at the University of Malaya, Malaysia.



Faculty Participation

S. No.	Name of the Faculty	Type of Program	Title of the Program	Organising Institute	Date
1	Ms S Bharani	Conference	National conference on recent advance in construction materials and structures	PSG College of Technology	02.02.2023 to 03.02.2023
2	Mr. S Logeswaran	Conference	National conference on recent advance in	PSG College of Technology	02.02.2023 to 03.02.2023

			construction materials and structures		
3	Ms K Dhivya	FDP	Future developments in civil engineering	Anand International College of Engineering	06.02.2023 to 10.02.2023

Faculty Publications

- **S. Anandaraj**, K. Raja, M. Mohamad Abbas, T. Madan Kumar, K. Varatharajan, N. Nivashini, “Experimental study on luffa fiber reinforced concrete using glass powder as cement replacement”, Materials Today: Proceedings
- **S. Anandaraj**, S. Karthik, S. Sylesh, R. Kishor, K. Suresh, K. Jai Prakash, KA. Dinesh Kannan, “Experimental investigation on sugarcane bagasse fiber reinforced concrete using bottom ash as sand replacement”, Materials Today: Proceedings

Faculty as a Resource Person

S.No	Name of the Faculty	Title of the Program	Organising Institute	Date
1	Dr G Anusha	Conference – Session chair	2023 International conference on advanced technologies in chemical, construction and mechanical sciences (ICATCHCOME 2023)	09.02.23 to 10.02.23
2	Mr. Yuvaraj S	Conference – Session chair	2023 International conference on advanced technologies in chemical, construction, and mechanical sciences (ICATCHCOME 2023)	09.02.23 to 10.02.23
3	Dr. Saravanakumar R	Conference – Session chair	2023 International conference on advanced technologies in chemical, construction, and	09.02.23 to 10.02.23

			mechanical sciences (ICATCHCOME 2023)	
4	Ms. K. Dhivya	Conference – Session chair	2023 International conference on advanced technologies in chemical, construction, and mechanical sciences (ICATCHCOME 2023)	09.02.23 to 10.02.23

Industry Visits by Faculty

S.No	Name of the Industry	Visit Date	Name of the Faculty(s)
1.	Sri Ramakrishna Advanced Training Institute, Coimbatore	08-02-2023	Dr. G. Anusha Mr. K. Rajkumar Mr. S. Yuvaraj Mr. P. Manikandan
2	K R Builders and Developers, Tiruppur	15-02-2023	Mrs. C. Vinodhini Mrs. S. Bharani
3.	R P Builders, Tirupur	15-02-2023	Mrs. C. Vinodhini Mrs. S. Bharani
4.	Bharathi Civil Engineering Consultancy, Tirupur	15-02-2023	Mrs. C. Vinodhini Mrs. S. Bharani
5.	Akshayam Properties, Coimbatore	22-02-2023	Mr. K. Maruthi Venkatesh Mr. M. Ram Vivekanandhan
6.	V K P Geotech, Coimbatore	22-02-2023	Mr. K. Maruthi Venkatesh Mr. M. Ram Vivekanandhan
7.	Vaanam Constructions, Coimbatore	23-02-2023	Dr. S. Kanmani Mr. P. Kalaivanan
8.	Pentagon Builders, Coimbatore	23-02-2023	Dr. S. Kanmani Mr. P. Kalaivanan
9.	Codescape, Coimbatore	23-02-2023	Dr. S. Kanmani Mr. P. Kalaivanan

10.	Cadeploy Engineering Private Limited, Coimbatore	27-02-2023	Dr. K. S. Elango Mr. S. Yuvaraj
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Students Achievement

S.No	Student	Class	Achievement	Organizer
1	Mr. A K Sri Vidyarth,	II CE	Fourth place in Sport	Inter College Sports Meet
2	Ms B Santhoshi,	II CE	Second Prize in Paper Presentation	Bannari Amman Institute of Technology
3	Ms S Kavin Dharshini	II CE	Second Prize in KARATE DO TOURNAMENT	VIII state level in KARATE DO TOURNAMENT

Students Participation

S.No	Name of the Student	Year & Section	Type of Program	Title of the Program	Organising Institute	Date
1	Adarsh A S	II CE	Sports	FOOTBALL TOURNAMENT	Bishop ambrose college	10.02.2023 to 11.02.2023
2	Kiruphashan S	II CE	Quiz	Series quiz in BIT PRAYUKTI 23	Bannari amman institute of technology	10.02.2023 to 11.02.2023
3	Karthik P	II CE	Quiz	Technical Quiz in RISOVOX 23	Karpagam academy of higher education	09.02.2023
4	Kalilu Rehman	II CE	Webinar	Basics of Wood working and optimization	Archi Carvee	19.02.2023

5	Vijai Anand V	II ME	Conferen ce	National conference on recent advances in construction materials and structures	PSG College of Technology	02.02.2023 to 03.02.2023
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ISR Activity

S.No	School / Poly. Activities with date	Name of the faculty	Name of the School / Poly.
1	28.02.2023	Dr K S Elango and Mr S Yuvaraj	PERKS Matriculation higher sec. school

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 and Highway Laboratory	Dr.R.Saravanakumar	Compressive Strength of Concrete Cubes	Er.Subramani, Subbu Builders, Tirupur	885
2	Concrete and Highway Laboratory	Dr.R.Saravanakumar	Compressive Strength of Concrete Cubes	Mr.R.K.Kathirvelu, Avinashi	1062
3	Strength of Material Laboratory	K.S.Elango	Material Characterization	Mr.R.Gokul, SKCT, Coimbatore.	944
4	Strength of Material Laboratory	K.S.Elango	Material Characterization	Mr. M.S.Vishal, SKCT, Coimbatore	1888
Total Amount (Rs.)					4779

Student Placement Details

S. No.	Student Name	Company Name	Package
1	M. Vimal	Puget Sound Steel Rebar Engineering Pvt Ltd	3.25 LPA
2	Abishek. E	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
3	Chellapriya	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
4	Grace Mercy. R	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
5	Jegan S	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
6	Manoj Kumar M	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
7	Ramya Selvam	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
8	Vinotha.R	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
9	M.Suganeshwaran	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
10	Bala Murugan v s	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
11	Boopathy K	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
12	Santhosh M	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
13	Dhanagopal K	Puget Sound Steel Rebar Engineering Pvt Ltd	2.4 LPA
14	M. Prabhakaran	Turner & Townsend	3.25 LPA
15	P. Umprabhakaran	Arrow Structures	1.8 LPA
16	D. Santhoshkumar	Arrow Structures	1.8 LPA

Department Achievement

ICI Outstanding Chapter Award, Best chapter in Coimbatore region



Other Activities

HoD Interaction to III Year Students



Visit to Plumbing Institute



Students Industry Visit to Ukkadam waste water treatment Plant

