

ASTHRA

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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
- Indoctriate 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

All India Seminar on "Repair, Rehabilitation and Retrofitting of RC Structures "

Date: 24.08.2023 to 25.08.2023

The registration commenced at 9.00 am and went on till 9:30 am at Civil Department, KPRIET. The Inaugural function started at 9:30 am and Dr.S Shanmugam, Chairman, IE(I) presented the welcome and Presidential address and briefed upon the activities of IE(I) in promoting Science and Technology and the importance of the seminar. Dr. M. Ramasamy, Principal, KPRIET gave the felicitation address to the gathering highlighting the importance of this seminar and appreciating the team to organise this event. Dr.G.Anusha, Professor and Head, Department of Civil Engineering, KPRIET presented an overview of the Two day All India Seminar on "Repair, Rehabilitation and Retrofitting of RCC Structures". Dr V Rajeshkumar, Assistant Professor(SI.G) gave the brief introduction about the chief guest. Dr.K.Balasubramanian, Managing Director, Hitech concrete solution Chennai PVT LTD delivered the chief guest address elaborating the importance of Repair and retrofitting works needed to restore the RCC structure instead of demolishing the whole structure.



Alumni Interaction

Date: 12.08.2023

Our Alumni has explained clearly about the list of degree programmes available in the NICMAR: The National Institute of Construction Management and Research (NICMAR) is a premier institute in India that offers specialized courses in construction, real estate, infrastructure, and project management. NICMAR is known for its high-quality education, industry-relevant curriculum, and strong industry connections. It has several campuses across India, with its main campus located in Pune, Maharashtra.



Expert Talk on “Art of Writing a Journal: Best Practices and Plagiarism Awareness”

Date: 07.08.2023

On 07.08.2023, the department of Civil Engineering organized an expert talk on the topic 'Art of Writing a Journal Paper for Final Year Students. The event aimed to equip final year students with essential knowledge and skills to effectively write and publish their research in academic journals. The talk was conducted by Dr.S.Anandaraj, AP(Sr.G), Associate Head (Research & Development) & Dr.K.S.Elango, Associate Professor from KPR Institute of Engineering and Technology, Coimbatore. The event commenced at 11 AM with a warm welcome to all attendees, including faculty members and final year students. Dr.S.Anandaraj took the stage and introduced the importance of journal paper writing and its impact on academic and professional growth.



Career Guidance Program to “Kadri Mills Higher Secondary School”

Date: 24.08.2023

To empower high school students with the knowledge, skills, and mindset necessary to make informed career choices and effectively plan their future paths, the program was organized. The following Components were discussed in detail: Self-Assessment: Begin with assessments that help students understand their strengths, interests, values, and personality traits. This could involve aptitude tests, personality quizzes, and reflective exercises to identify potential career matches. Career



Career Guidance Program to “GRD CPF Matriculation Higher Secondary School”

Date: 02.08.2023

The Career Guidance Program by Clinical Psychologist Mr. Babu Rangarajan, hosted on August 2nd, 2023, at the Thanam Hall of GRD CPF Matric Higher Secondary School, Neelambur, was an enlightening and empowering event aimed at equipping students with valuable insights into making informed career choices. Organized by the Department of Civil Engineering, the program brought together students, faculty members, and esteemed professionals to shed light on various aspects of career planning and development. The event commenced with a warm welcome address delivered by Dr. R. Saravanakumar, who emphasized the significance of career guidance and the role it plays in shaping students' futures.



Career Guidance Program to “MNC Matriculation Higher Secondary School”

Date: 17.08.2023

The Department of Civil Engineering, in collaboration with the Office of Admissions, orchestrated an illuminating Career Counselling Program for school students on August 17th at 9:30 AM in the esteemed Thanam Hall. The attendees consisted of enthusiastic school students & dedicated faculty members of MNC Matriculation Higher Secondary School, Neelambur. The event kicked off with a gracious welcome address by Dr. Raju, the Associate Head of the Office of Admissions. Dr. Raju's eloquent speech set the tone for the event, underscoring the significance of early career planning and the importance of making well-informed choices.



Hands-on-Training in “Structural Detailing”

Date: 12.08.2023

Structural detailing is a crucial aspect of the construction and engineering industry. It involves creating detailed drawings and documents that provide specific instructions for fabricating and constructing structural elements of a building or infrastructure project. These detailed drawings serve as a bridge between the design and construction phases, ensuring that the project is built accurately, safely, and efficiently. Here are some basics of structural detailing explained in the lecture. Blueprints and Drawings: Structural detailing involves creating detailed drawings, also known as blueprints or construction documents.



Hands-on-Training on “Staad Pro”

Date: 23.08.2023 to 15.09.2023

STAAD Pro is a powerful tool for performing structural analysis of various types of structures, including buildings, bridges, towers, and more. It helps engineers determine how a structure will behave under different loading conditions, which is critical for ensuring safety and structural integrity. STAAD Pro can significantly reduce the time and effort required for structural analysis and design tasks compared to manual calculations. Its ability to handle complex geometries and loads makes it a valuable tool for optimizing designs and reducing material costs.



One Credit Course on “Valuation of Land and Buildings”

Date: 11.08.2023 to 12.08.2023

The event commenced on 11th August, 2023. Dr. G. Anusha welcomed the guests and the students. Mrs. Indhiradevi P mentioned the importance of the concept valuation of land and buildings for every civil engineer. Mr. Pichaya S, chairman Std. Board IOV RVF started his session about cost- price and assets- liabilities. He gave a detailed explanation about current assets and fixed assets and current liabilities and long term liabilities. he also gave a clear idea relationship between assets and liabilities. The session was then proceeded by Mr. Adaikkalavan, chairman IOV, Coimbatore chapter.



Parents – Teacher – Student Connect 2023

Date: 18.08.2023

Dr.G.Anusha, welcomed the Parent – Teacher – Student connect 2023. HOD/Civil presented last year academic achievements to the parents that included both student and faculty member's activities Attendance Percentage of the students was discussed and it was informed to the parents that if student secures less than 65% of attendance, they will not be allowed for semester exams Slow learners coaching class has been planned for students after working hours, parents are requested to motivate the students to attend. Scholarship will be cancelled for students, if he/she fails in a subject or if he/she did not participate in any academic or sports activities GATE training is planned in afternoon and it is in progress for III year students, parents are also informed to educate and make use of the opportunity.



Sketchit 2.0 Competition

Date: 30.08.2023 to 10.09.2023

KPR Institute of Engineering and Technology's Civil Engineering department has hosted a 'Sketch it 2.0' competition from August 30 to September 10, 2023. The competition had two rounds, with 24 teams participating across Tamil Nadu. The first round was held on September 3, 2023, and involved creating a 2D plan and 10 teams were shortlisted for the second round, which was held on September 7, 2023, and involved creating a 3D elevation.

Smart Construction ICI – Webinar Series 1

Date: 22.08.2023

Experience the transformative potential of Google Earth in civil engineering with Dr. Prabakaran's expert guidance. Held on August 22nd, this session offered hands-on insights into leveraging Google Earth for site planning and surveying. Dr. Prabakaran's 10 years of civil engineering expertise brought forth practical strategies. Participants learned to collect site data comprehensively, empowering data-driven decisions. The session highlighted data analysis techniques using Google Earth's tools. Attendees were introduced to the art of creating intricate 3D models, offering dynamic project perspectives.



National Level Quiz Contest on “Design of Reinforced Concrete Structures”

Date: 27.08.2023 to 29.08.2023

The National Level Quiz on 'Design of Reinforced Concrete Structures' was conducted by the ASCE (American Society of Civil Engineers) KPRIET Students Chapter on August 27 and 29, 2023. The event aimed to test and enhance the knowledge of civil engineering students in the field of reinforced concrete structure design. Participants from various colleges and universities across the country enthusiastically joined the competition.

Faculty Participation

S.No	Name of the Faculty	Event Name	Date	Organizing Institute
1	Mr. S. Yuvaraj	NPTEL Course - Accreditation and Outcome Based Learning	01/08/2023 to 29/10/2023	IIT Kharagpur

2	Mr. V. Kavinkumar	FDP on Accreditation and Outcome Based Learning	23/08/2023 to 13/10/2023	NPTEL
3	Mr. V. Kavinkumar	NPTEL Course - Accreditation and Outcome Based Learning	21/08/2023 to 13/10/2023	NPTEL
4	Dr. R. Dharmaraj	NPTEL Course - Accreditation and Outcome Based Learning	07/08/2023 to 25/10/2023	IIT Kharagpur
5	Mr. S. Elavarasan	NPTEL Course - Accreditation and Outcome Based Learning	21/08/2023 to 13/10/2023	NPTEL
6	Mr. D. Vivek	NPTEL Course - Accreditation and Outcome Based Learning	01/08/2023 to 31/10/2023	NPTEL
7	Mr. K. Maruthi Venkatesh	NPTEL Course - Accreditation and Outcome Based Learning	22/08/2023 to 28/09/2023	IIT
8	Dr. R. Saravanakumar	All India Seminar on "Repair, Rehabilitation and Retrofitting of RCC Structures"	24/08/2023 to 25/08/2023	KPRIET
9	Mr. V. Kavinkumar	IGBC Green League	01/08/2023 to 05/08/2023	IGBC CII

Industry Visit by Faculty

S.No	Name of the Industry	Visit Date	Name of the Faculty's
1.	Design Soft Tech, Coimbatore	22.08.2023	Dr. R. Dharmaraj
2	RS Graden, Coimbatore	22.08.2023	Dr. R. Dharmaraj
3	Design Arch, Coimbatore	22.08.2023	Dr. R. Dharmaraj
4	Town & City Developers, Coimbatore	30.08.2023	Dr.G.Anusha, Mr.S.Yuvaraj, Mr.V.Kavinkumar

Faculty Publications

- **Mr. D. Vivek and ett al** published paper on the title “Fabrication and Characterization of Partial Bio-nano Silica Inclusion in Fibre-Reinforced Concrete for High Performance Applications” in Scopus, Hindawi Advances in Polymer Technology.
- **R Sona, Dr. S. Kanmani ana ett al** published paper on the title “Experimental Investigation on Carbonation due to Climate Change Impacts” in Global Nest.
- **Gopi Rajacmanickam, Dr. R. Saravanakumar and ett al** published paper on the title “Drug Repositioning using Computer Aided Drug Design (CADD), PubMed, Current Pharmaceutical Biotechnology” in Current Pharmaceutical Biotechnology.

Student Participation

S.No	Name of the Student	Event Name	Date	Organizing Institute
1	Santoshi B	Chandrayaan-3 Mahaquiz	23/08/2023	ISRO
2	Prasannakumar S	Aquawar	31/08/2023 to 04/09/2023	IIT Guwahati
3	Balamurugan P	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
4	Hari Krishna R	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
5	Dhanush R B	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
6	Gokul M	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
7	Ajayaakash V	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
8	Dhinesh R	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET

9	Adarsh A S	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
10	Elango K	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
11	Dhinesh Kumar N	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
12	Hkalilu Rehman	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
13	Aarthi G	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
4	Boopathi Raja P	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
15	Indirajith L	Repair Rehabilitation and Retrofitting of RCC Structures	24/08/2023 to 25/08/2023	KPRIET
16	Indirajith L	CODETHON	26/08/2023	Dr. NGP Institute of Technology
17	Loakchana K	Shrujana 2023 - L&T; Edutech	08/08/2023 to 10/09/2023	KPRIET
18	Thitheashwar K K	Quiz	07/08/2023 to 08/11/2023	KPRIET

Consultancy Activities

SI.No	Name of the Laboratory	Amount received (Rs)
1	Concrete and Highway Laboratory	6,549
Total		Rs. 6,549 /-