

ASTHRA

November 2023



The Newsletter of

Department of Civil Engineering



KPR Institute of
Engineering and
Technology

Learn Beyond

(Autonomous, NAAC "A")

EDITORIAL BOARD

Editor in Chief

Dr. G. Anusha

Professor & Head

Department of Civil Engineering

Editor

Ms. B. Srinithi

Department of Civil Engineering

Student Editors

Mr. J. Ajithkumar – IV Year

Mr.V.Gopikrishnan – IV Year

Ms. E Nandhika – IV Year

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 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

One Credit Course On Plan Approval And Tender

Procedure

Date: 17.11.2023 to 18.11.2023

Session began with the refresher quiz session about the contents delivered on Day 1. The course began with the pre - quiz assessment for the students through online mode using the google forms platform. Resource person Er. Thilak Ranjith started the session with deliberating the list of documents required for plan approval process. He also insisted about the practice prevailing in recent days in government bodies for approval by demonstrating the same through e-DCR online application. On the second day, the resource person gave several insights about the procedure for tender application for any government or non government projects. He also gave more clarity about tender, contract and agreement.



ASCE DAY- Nov 5 Celebration

Date: 06.11.2023 to 08.11.2023

The Photography Competition saw enthusiastic participation, with members submitting captivating images capturing the essence of civil engineering in various contexts. Notable themes included infrastructure, sustainability, and the beauty of civil engineering in our surroundings. A panel of judges, consisting of faculty and photography enthusiasts,

evaluated the entries based on creativity, composition, and relevance to civil engineering. The Poster Competition featured visually appealing presentations showcasing innovative ideas, research projects, and the impact of civil engineering on society. Participants presented their posters to judges, explaining their concepts and methodologies. The posters covered a wide range of topics, including sustainable construction, urban planning, and cutting-edge technologies in civil engineering.



Parent Teacher Student Connect 2023 for II Year Civil Engineering

Date: 18.11.2023

The primary purpose of the parent-teacher meeting was to discuss the academic progress, behaviour and overall well-being of the students. Head of the Department of Civil Engineering Dr. G. Anusha welcomed the parents and discussed about the facilities available along with the training modules planned for the betterment of students. She presented the achievements of the department, faculty and students to all the parents. Also he emphasized and sought the support of parents to encourage students to make use of the facilities available beyond working hours. Later, all the parents interacted with respective mentors where performance of students CIAT I of current semester and previous End Semester examination were discussed.



Alumni Induction

Date: 04.11.2023

The event emphasized the importance of alumni in the growth and development of the institution, and encouraged everyone to engage and network. A distinguished alumnus, Ms.R.Narmadha, delivered a keynote speech, sharing their journey and insights. Alumni from different batches were invited to share their experiences, career journeys, and anecdotes. Several on spot events were conducted on topics like entrepreneurship, career development, and personal branding. The event provided ample opportunities for networking, with designated areas for alumni to connect, exchange business cards, and discuss potential collaborations.



AutoCAD Advanced Level

Date: 17.11.2023 to 18.11.2023

The hands-on training encouraged active participation from students. The value-added course on Advanced AutoCAD provided students with valuable skills and knowledge in AutoCAD software. Upon successful completion of this course, participants were able to demonstrate a comprehensive understanding of AutoCAD's advanced 2D drafting features.

and techniques, apply advanced drafting commands to create complex and intricate drawings with precision and efficiency. Utilize advanced editing tools to modify and enhance existing drawings.



Expert Talk on “Bending of Beams”

Date: 27.11.2023

Ms. V. Selvapriya, Assistant Professor, Department of Civil Engineering from PSG Institute of Technology and Applied Research (PSG iTech) explained clearly about the importance of strength of materials subject among the students and created an awareness about the real time applications for civil engineering students. She also presented on the performance behaviour of structural members in a building due to different loading conditions. Also she elaborated on the bending behaviour of beams emphasizing on the importance of shear force and bending moment diagram. She also briefed about the analysis and design aspects of building.



Faculty Publications

- **P. Indhiradevi**, B.S. Meenakshi, M. Ram Vivekanandhan, G. Keerthigha, Nekkil Chettri, Poorna Pushkalapriya published paper on the title “ A study on reduction of air pollution by adding mesoporous adsorbent in road pavements” in MATEC Web of Conferences .
- **P. Indhiradevi**, B.S. Meenakshi, M. Ram Vivekanandhan, G. Keerthigha, Nekkil Chettri, Poorna Pushkalapriya published paper on the title “ Development of alternatives for signalized intersection- A Case study of Laxmi Mill Junction, Coimbatore” in MATEC Web of Conferences.
- **S. Kanmani**, B. Soundara, R. Geethamani published paper on the title “ Emerging contaminants in the environment and bioremediation control strategies- A review” in IOP Conf. Series: Earth and Environmental Science.
- **R. Kavitha**, V. Rajeshkumar, S. Sabarinathan, V. Vijai Anand, J. Ajithkumar published paper on the title “Comparison of reinforced cement concrete versus steel structures in health industry” in Lecture notes in civil engineering.
- **G. Anusha**, K. Maruthi Venkatesh published a book chapter on the title “ A brief overview on microbial composting” in current innovations in chemical and materials sciences ”.
- **G. Anusha** published a book on “ Wastewater treatment by adsorption agro wastes as adsorbents” in LAMBERT Academic Publishing

Faculty Participation

S. No.	Name of the Faculty	Type of Program	Title of the Program	Organising Institute	Date
1.	Dr. S. Anandakumar	Conference	National higher Education conclave 2023- 7 th Edition	Confederation of Indian Industry	02/11/2023
2.	Dr. G. Anusha	Webinar	ICT Tools Usage	Up Educators	06/11/2023
3.	Dr. G. Anusha	Webinar	Energy Literacy Training	Energy Swaraj Foundation	07/11/2023
4.	Dr. S. Anandakumar	Expert Discussion	Academic Expert for Department advisory Committee	Sengunthar Engineering college	23/11/2023

Industry Visit by Faculty

S.No	Name of the Industry	Visit Date	Name of the Faculty's
1.	Green Well construction Interiors	06/11/2023	Dr. V. Rajeshkumar Mr. S. Yuvaraj
2	Mak India Ltd	21/11/2023	Dr G. Anusha Ms. K. Dhivya
3.	Sitra	21/11/2023	Dr G. Anusha Ms. K. Dhivya
4.	TANCOIR	21/11/2023	Dr G. Anusha Ms. K. Dhivya
5.	ABC Techno Labs	21/11/2023	Dr G. Anusha Ms. K. Dhivya
6.	KCP Infra Ltd	17/11/2023	Dr. R. Dharmaraj Mr. S. Elavarasan
7.	CAD Opt Technology Pvt Ltd	25/11/2023	Dr. R. Dharmaraj Dr. R. Saravanakumar
8.	Sublime Structures	25/11/2023	Dr. R. Dharmaraj Dr. R. Saravanakumar

Student Participation

S.No	Name of the Student	Year	Title of the Program	Organising Institute	Date
1.	Rithika G	II	International seminar on Air Quality Monitoring and Modelling	Kumaraguru College of Technology	02/11/2023
2.	Kalki M J	II	QGIS	Kumaraguru College of Technology	02/11/2023
3.	Sandhiya P	II	International seminar on Air Quality Monitoring	Kumaraguru College of	02/11/2023

			and Modelling	Technology	
4.	Gethisal V	II	EKNA '23	Anna University Regional campus	07/11/2023
5.	Nandhini M	II	International seminar on Air Quality Monitoring and Modelling	Kumaraguru College of Technology	02/11/2023
6.	Aadhithya V P	III	International seminar on Air Quality Monitoring and Modelling	Kumaraguru College of Technology	02/11/2023
7.	Saran S	II	Open Foam and & GIS	Kumaraguru College of Technology	02/11/2023
8.	Hari Prasath K	II	International seminar on Air Quality Monitoring and Modelling	Kumaraguru College of Technology	02/11/2023

Students Achievement

S.No	Student	Class	Achievement	Organizer
1	Santhoshi B	III CE	Overall Champion Winners - 9 th Zone Anna University Athletics Meet	Anna University & CIT



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	Structural Stability	Primus Associates	14160
2	Strength of Material Laboratory	Dr. K.S Elango	Material characterization	Government College of Technology, Salem	2537
3	Strength of Material Laboratory	Mr. S. Yuvaraj	Material characterization	Sri Ramakrishna Engineering College	472
Total Amount (Rs.)					17169