



KPR Institute of
Engineering and
Technology

Learn Beyond

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Department of Chemical Engineering



2 Issue

October - December, 2024

Vision and Mission Institute

Vision and Mission Department

Vision

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

- Commitment to offer value based education and enhancement of practical skills
- Continuous assessment of teaching and learning processes through scholarly activities
- Enriching research and innovative activities in collaboration with industry and institute of repute
- Ensuring the academic processes to uphold the culture, ethics and social responsibility

Vision

To be a center of academic and research excellence in chemical engineering to cater to the diverse needs of industry, society and the global community.

Mission

- Provide quality education that integrates values and practical skills to ensure effective learning outcomes
- Promote research, innovation, and collaboration with industries and institutions of repute
- Inculcate professionalism, ethics, lifelong learning and social responsibilities

INSIDE NEWSLETTER

- MoU
- BoS MEETING
- GUEST LECTURE
- SEMINAR
- INVITED TALK
- WEBINAR
- ALUMNI TALK
- ISR ACTIVITY
- ONE CREDIT COURSE
- INDUSTRY INTERACTION
- STUDENTS ACHIEVEMENTS
- FACULTY ACHIEVEMENTS
- FACULTY PARTICIPATION
- PUBLICATION



From Left to Right: Mr. Mohan, Deputy General Manager - Human Resources, Dr. S. Balasubramanian, Professor & Head, Dr. S. Pranav, Assistant Professor II, Mr. Mohan, Human Resource Manager

A Memorandum of Understanding (MoU) was signed by KPRIET with Sakthi Sugars Limited, Erode, to promote academic and industrial collaboration. The MoU signing took place at Appakudal, Erode, on 23rd October 2024. This MoU aims to provide opportunities for students and faculty to engage in industry-relevant projects, internships, industrial training, and research initiatives. It also facilitates the exchange of technical expertise and knowledge between academia and industry.

Robell Material Research Centre, Salem



A Memorandum of Understanding (MoU) was signed between Department of Chemical Engineering with Robell Material Research Centre, Salem on 22nd November, 2024. This collaboration aims to promote joint research activities, student internships, industrial training, and knowledge exchange between academia and industry. The MoU marks a significant step toward enhancing practical learning and research opportunities for students and faculty.

From left to right: Dr. S. Pranav, Assistant Professor II, Team Robell with Mr. Arjun Moorthy, Founder and Director, Robell Material Research Centre, Salem, Dr. S. Balasubramanian, Professor and Head & Lt. Dr. A. K. Priya, Professor



A Memorandum of Understanding (MoU) was formally signed between Praj Industries Ltd., a global leader in process and project engineering, and Department of Chemical Engineering, KPR Institute of Engineering and Technology marking a significant milestone in fostering industry-academia collaboration. The MoU was signed by Dr. Prakash Ranjan, Chief Human Resources Officer (CHRO) of Praj Industries Ltd., in the presence of senior officials. The collaboration aims to bridge the gap between theoretical knowledge and industrial practices by enabling joint research initiatives, expert lectures, student internships, industrial visits, and faculty development programs.

Dr. Prakash Ranjan, Chief Human Resources Officer (CHRO) of Praj Industries Ltd., Pune signing the MoU

Board of Studies Meeting



The Eleventh Board of Studies (BoS) Meeting of the Department of Chemical Engineering was successfully conducted on 6th December 2024. The meeting focused on reviewing and updating the curriculum to align with the latest industry trends, academic requirements, and NEP guidelines. Valuable suggestions were provided by academic experts, industry representatives, and alumni members to enhance the overall quality of the academic programs. The department expresses its gratitude to all BoS members for their active participation and constructive inputs in shaping a future-ready curriculum.

Faculty and Students of the department with BoS Members

Guest Lecture on “Women in Process Engineering”

Events Department



A guest lecture on “Women in Process Engineering” was organized on 15th October 2024. The session featured Mr. Baskar Krishna, Senior Process Specialist at GRECO, Taiwan, and Mrs. Kavya, Executive Director - Academic, Institute of ChemE Design and Development, Coimbatore. The speakers shared insightful perspectives on the role of women in process industries and the evolving career opportunities. They emphasized the importance of gender diversity in driving innovation and productivity within engineering teams. The session concluded with an engaging Q&A, inspiring students to pursue leadership roles in Process Engineering.

Expert Lecture on “Past Innovations in Chemical Engineering”

Events
Department



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Chemical Engineering
In Association with
Indian Institute of Chemical Engineers (IIChE), KPRIET Student Chapter
organizes an Expert Lecture on

PAST INNOVATIONS IN CHEMICAL ENGINEERING

Resource Person



Dr. R. Bharathi Ganesan
Assistant Professor (Grade II)
Department of Chemical Engineering
NIT Calicut

25/10/2024 | 03:00 - 04:00 PM
GITAM HALL

[/KPRIETOnline](#)

KPRIET supports the Sustainable Development Goals



An Expert Lecture on “Past Innovations in Chemical Engineering” by Dr. R. Bharathi Ganesan, Assistant Professor (Grade II) from the Department of Chemical Engineering, NIT Calicut was organized on 25th October 2024. This insightful event aimed to provide students and faculty with a comprehensive overview of groundbreaking innovations that have shaped the field of Chemical Engineering over the years.

Seminar on “Playing Catch with Electrons”

Events
Department


KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

KPR International Centre, CFRD & Department of Chemical Engineering

Organize the Seminar on

**Playing Catch with Electrons:
A Dynamic Metaphor for Chemical Bonding**

Resource Person



Prof. Dr. John F. Wager
Professor Emeritus,
Oregon State University, USA

Date: 24.10.2024
Venue: KPRIET Campus

Oregon State University

kpriet.edu.in
f t i y w /KPRIETOnline

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KPRIET is an ISO 14001:2015 Certified Institute

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A seminar titled “Playing Catch with Electrons: A Dynamic Metaphor for Chemical Bonding” was conducted by Prof. Dr. John F. Wager, a distinguished Professor Emeritus from Oregon State University, USA, renowned for his remarkable contributions to Materials Science and Chemical Education. The event, held on 24th October 2024, offered students, faculty, and researchers a fresh perspective on the fundamentals of chemical bonding through an engaging and dynamic approach. Prof. Wager used interactive analogies and real-life examples to simplify complex concepts, making them accessible to audiences from diverse academic backgrounds. The session encouraged active participation, sparking curiosity and insightful discussions among attendees. It served as an inspiration for young researchers to explore innovative teaching methodologies in Science and Engineering.

Invited Talk on “Distinct Vision on Industry”

Events
Department

Ms. J. Varsha is an alumna of the Chemical Engineering Department and belongs to the batch of 2019–2023. During her time at the institute, she actively participated in academic and extracurricular activities, showcasing consistent dedication and commitment. She has contributed to various departmental events and projects, leaving a positive impression among faculty and peers. Her achievements and journey serve as an inspiration for current students of the department. She continues to stay connected with her alma mater, offering guidance and support to juniors. The department takes pride in celebrating her success and wishes her the best.

An invited talk titled “Distinct Vision on Industry” was conducted on 16th October 2024 by Ms. Varsha J, Business Development Executive – Global Product Sales, Deltek, Coimbatore. During the session, she shared her professional insights on industrial expectations, the role of business development, and how engineering students can align their skills with the evolving demands of the industry. The session provided students with a clearer understanding of the current industrial landscape and helped them enhance their career readiness. Students actively interacted with the speaker, gaining valuable tips for professional growth and networking. The department expressed its gratitude to Ms. Varsha for her time and effort in guiding the students toward achieving their professional aspirations.



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KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Chemical Engineering

Indian Institute of Chemical Engineers (IIChE),
KPRIET Student Chapter
&
Association of Chemical Engineering
Jointly organise a webinar on

FROM CRUDE TO COOL
Pioneering Chemical Engineering for Climate Action

08/10/2024 | 03:00 - 04:00 PM
SMART CLASSROOM







/KPRIETonline





Resource Person



Mr. Vishnusankar Chandran
Associate Manager - Supply Chain Management
Saahas Zero Waste Management
Bangalore



A webinar titled “From Crude to Cool: Pioneering Chemical Engineering for Climate Action” was conducted on 8th October 2024. The resource person for the event was Mr. Vishnusankar Chandran, Associate Manager – Supply Chain Management at Saahas Zero Waste Management, Bangalore. Mr. Chandran shared valuable perspectives on transitioning from fossil fuel-based processes to sustainable and climate-friendly solutions in the Chemical Engineering field. He also highlighted real-world case studies where innovative engineering practices have successfully reduced carbon footprints. The session inspired students to explore green technologies and consider their role in driving a sustainable industrial future.

Webinar on “Enhancing Industrial Sustainability through Membrane Technologies”

Events Department



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Chemical Engineering
organizes a webinar on

Enhancing Industrial Sustainability Through Membrane Technologies

21.10.2024 | 03:00 - 04:00 PM
Venue : Smart Classroom

kpriet.edu.in
f t i y t g /KPRIETonline

Resource Person

Mr. V. Manikandan
Group Leader
Regional Technical Support
Hydraulics
Mumbai

KPR Institute supports the Sustainable Development Goals



A webinar on “Enhancing Industrial Sustainability through Membrane Technologies” was organized on 21st October 2024. The resource person Mr. V. Manikandan, Group Leader, Regional Technical Support, Hydraulics, Mumbai, provided valuable insights into the role of advanced membrane technologies in promoting sustainable industrial practices. He discussed various membrane processes such as reverse osmosis, nanofiltration, and ultrafiltration, and their applications in water recovery, wastewater treatment, and resource conservation. Emphasis was placed on how membrane technology helps industries achieve zero liquid discharge (ZLD) and reduce environmental impact.

A webinar on “Role of Chemical Engineers in Pharmaceutical Industry”

Events Department



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Chemical Engineering

Organizes a webinar on

Role of Chemical Engineers in Pharmaceutical Industry

Speaker

Dr. P. Jagadeesh
AGM, GMFC Labs
Vishakhapatnam

18.11.2024 | 03.00 PM - 04.00 PM
Venue : CH Smart Classroom

kpriet.edu.in
/KPRIETonline



A webinar on “Role of Chemical Engineers in Pharmaceutical Industry” was organized on 18th November 2024. The session was delivered by Mr. P. Jagadeesh, Assistant General Manager, GMFC Labs, Vishakhapatnam.

During the webinar, Mr. Jagadeesh highlighted the critical contributions of chemical engineers in various domains of the pharmaceutical sector including process development, scale-up, regulatory compliance, and production optimization. He also shared his industry experience and guided students on the skill sets required to build a successful career in the pharma industry. The session was highly insightful and encouraged students to explore diverse roles chemical engineers can play in the healthcare domain.

Alumni Interaction

Events
Department

An Alumni Interaction session was organized on 1st October 2024 and the guest speaker was Mr. Teepak Soorya, a proud alumnus from the 2020–2024 batch, who is currently working as an EMS Trainee at Southern Petrochemical Industries Corporation (SPIC), Thoothukudi. During the session, Mr. Teepak shared his experiences transitioning from campus to corporate life, The session was highly interactive and served as a great source of motivation for current students to explore diverse career paths in the Chemical Engineering field.

ISR Activity



Dr. S. Balasubramanian, Prof & Head, CH delivered an inspiring talk at Chinmaya Vidyalaya School, R.S. Puram, Coimbatore, interacting with enthusiastic Class -12 STEM aspirants. He thanked Mr. N. Arunkumar AP II, the Department Admission Coordinator, for providing this wonderful opportunity. The interaction also highlighted the vast career opportunities and innovations possible in engineering, encouraging students to pursue their passion in science and technology with confidence.

One Credit Course on “Basics of Oil and Gas”

Events Department



A One Credit Course on “Basics of Oil and Gas” was conducted on 19th October 2024. The session was handled by Mr. Jeyaraman, an expert from Cameron, a Schlumberger Company. The course offered students a strong foundation in the oil and gas sector, covering essential topics such as exploration, production processes, refining techniques, and industry-standard safety practices. The expert also shared valuable industry insights, real-life case studies, and the latest technological advancements in upstream and downstream operations. Students actively engaged in discussions, gaining practical exposure to equipment, process flow, and safety protocols followed in oil and gas industries.

The session also emphasized the importance of sustainable practices and environmental considerations in the energy sector. By the end of the course, students expressed that the knowledge gained had broadened their career perspectives and inspired them to explore opportunities in this dynamic and globally significant industry.



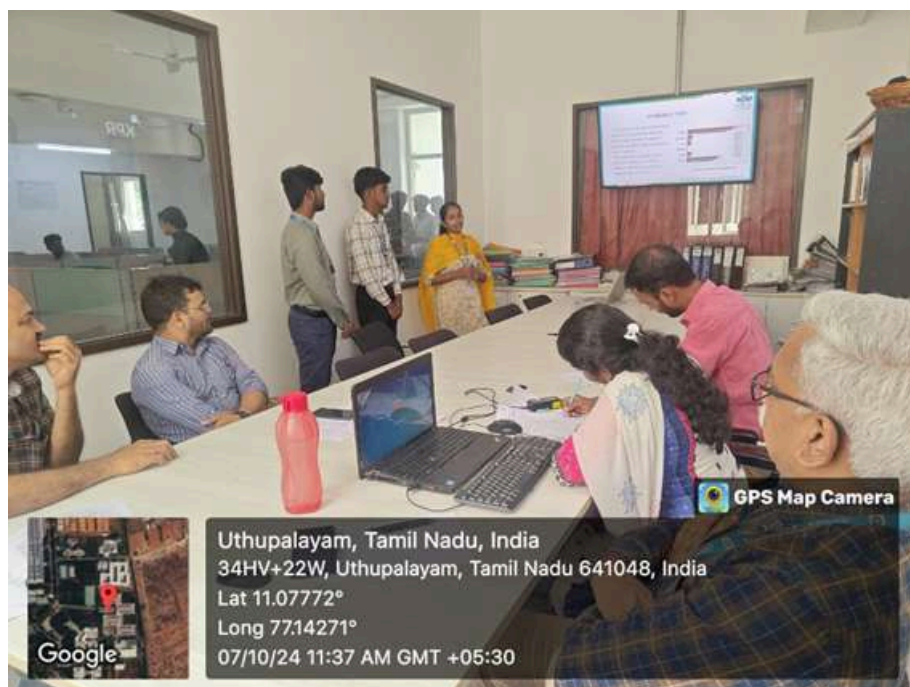
Mr. Ravi Ramasamy, Director, Pragna Consultants Private Limited and Chem Skill Development Centre has joined the Chemical Engineering Department as Professor of Practice. With rich industrial experience and academic expertise, Mr. Ramasamy brings immense value to the department's teaching, mentoring, and collaborative research initiatives. He will be visiting the department five days each month, actively engaging with faculty and students to bridge the gap between industry and academia. His involvement is expected to significantly enhance practical learning, curriculum development, and industry-oriented projects.

ACS Student Chapter



The Department of Chemical Engineering at KPR Institute of Engineering and Technology proudly announces the formation of the American Chemical Society (ACS) International Student Chapter. This recognition by the Council of the American Chemical Society (ACS) marks a significant milestone for the department, opening new opportunities for global collaboration, professional networking, and student development in the field of Chemistry and Chemical Engineering.

Capstone Project Review

Events
Department

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The first review of the Capstone Project Phase I for the final year students of the 2021–2025 batch was conducted on 7th October 2025. Students presented their project objectives, initial research, and proposed methodologies to the review panel. The session provided valuable feedback and guidance, it marked an important milestone in their academic journey. At KPRIET, the Capstone Project serves as a vital component of the academic curriculum, providing students with hands-on, real-world problem-solving experience. As part of this initiative, students identify or are assigned an industry-relevant problem and work under the guidance of a faculty supervisor. Collaborating closely with industry partners, they apply their theoretical knowledge, technical skills, and innovative thinking to develop practical solutions.

This process not only enhances their research, design, and analytical capabilities but also prepares them for professional challenges in their respective fields. The Capstone Project acts as a bridge between classroom learning and industry expectations, fostering critical thinking, teamwork, and project management skills.

It also encourages students to interact with industry experts, gaining valuable insights into current trends and challenges. The experience significantly boosts their confidence and employability, making them industry-ready graduates.

Mock Interview for Final Year Students

Events
Department

Mr. Manikandan of Batch (2021–2025) attended his mock interview as part of the department's placement preparation activities. The Department is proud to share that he is currently placed in Southern Petrochemical Industries Corporation Limited (SPIC), a leading fertilizer and chemical manufacturing company in India. His achievement reflects the hard work, dedication, and skills developed during his academic journey.

Ms. Vinothane of Batch (2021–2025) attended her mock interview as part of the department's placement readiness initiatives. We are proud to share that she is placed in Schlumberger – Cameron, Coimbatore, a global leader in oilfield services and advanced equipment manufacturing. Her accomplishment showcases her dedication, skillset, and the department's continuous efforts to equip students with industry-relevant knowledge.



A Mock Interview Session was conducted for IV B.Tech. Chemical Engineering students on 19th October 2024. The session was facilitated by Dr. G. Surendran, Placement Coordinator of the department, providing students with valuable training in interview skills, communication techniques, and professional presentation. The activity aimed to simulate real-world interview scenarios, helping students overcome nervousness and improve their confidence. Individual feedback was given to each participant, highlighting their strengths and suggesting areas for improvement. This initiative not only enhanced their preparedness for campus placements but also equipped them with essential soft skills and industry-relevant etiquette to excel in professional environments. The mock interview covered both technical and HR-based questions, giving students a holistic experience. They were encouraged to articulate their thoughts clearly and structure their answers effectively. Emphasis was also placed on body language, eye contact, and professional grooming to create a strong first impression. Overall, the session served as a valuable confidence-building exercise ahead of the upcoming placement drives.

Events Department

A Competition on “Food Without Fire”



The American Institute of Chemical Engineers (AIChE) – KPRIET Student Chapter organized an engaging Food Without Fire competition on 5th October 2024. The event encouraged creativity, teamwork, and culinary innovation among students, who showcased their ability to prepare delicious and visually appealing dishes without the use of fire. In addition to promoting healthy eating and sustainable cooking practices, the event supported the United Nations Sustainable Development Goals—particularly SDG 3: Good Health and Well-being and SDG 12: Responsible Consumption and Production. The competition provided a fun and collaborative platform to raise awareness about nutrition, food safety, and sustainability.

Ayudha Pooja Celebration



Ayudha Pooja was celebrated on 10th October 2024 at the campus premises. The traditional festival, which symbolizes respect and gratitude towards tools, instruments, and machinery, was observed with devotion and enthusiasm by the campus community. The celebration aimed to promote cultural values, foster unity, and instill a spirit of reverence among students, faculty, and staff.

Paques Global Environmental Solutions, Coimbatore

Events
Department

A meeting was held with Ms. Trishanka Menon (Manager - Tech Sales) and Ms. Priya (Vice President - HR) of Paques Global Environmental Solutions on 7th October 2024, focusing on collaborative opportunities and industry engagement. Dr. S. Pranav AP II, CH took part in the meeting and discussed on the collaborative opportunities.

Ammarun Enviguard Industries Private Limited,
Coimbatore

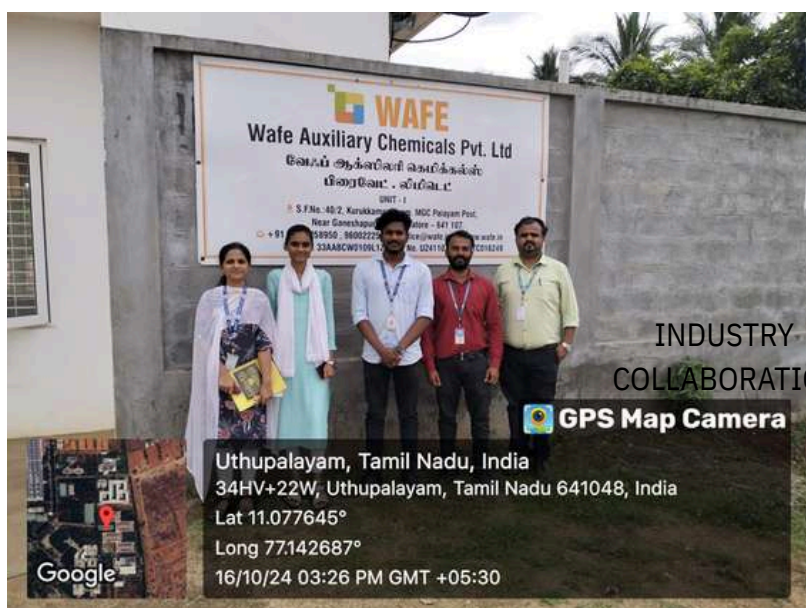
Dr. M. Laxmi Deepak Bhatlu, Assistant Professor II & Dr. S. Pranav, Assistant Professor II visited Ammarun Enviguard Industries Private Limited on 8th October 2024. During the visit, the faculty members interacted with the technical team and explored the manufacturing and quality control processes followed by the company in the production of water treatment systems and environmental monitoring solutions. The discussion focused on potential areas for academic-industrial collaboration, student internships, and live industrial projects related to effluent treatment, membrane-based purification, and environmental compliance.

Keel Kadhavukarai, Tamil Nadu, India
6365+6X, Keel Kadhavukarai, Tamil Nadu 641697, India

Kavin Engineering and Services, Coimbatore

Events
Department

Dr. G. Surendran, Associate Professor, CH, visited Mr. Yussouf, HR Manager of Kavin Engineering and Services on 10th October 2024. The visit session focused on industry expectations, career opportunities, and essential skills for Engineering graduates. They discussed potential avenues for collaboration between the company and the department, including internships and industrial training programs for students. Mr. Yussouf emphasized the importance of practical exposure and adaptability in meeting modern engineering challenges.

WAFE Auxiliary Chemicals Private Limited,
Coimbatore

Dr. S. Parnav and his students team visited WAFE Auxiliary Chemicals Private Limited, Coimbatore, on 16th October 2024 as part of their industrial exposure program. The visit provided valuable insights into the manufacturing and industrial practices. Students had the opportunity to interact with industry professionals and understand real-world applications of their academic knowledge.

Alumni Interaction with Faculty and Juniors

Events
Department

From left to right. Dr. Daniel Thanagadurai, Head CNAT and Associate Head CFRD, Dr. K. Mohana Sundaram, Professor & Head, Department of Electrical and Electronics Engineering, Dr. S. Balasubramanian, Professor & Head, Chemical Engineering, KPRIET)

KPRIET faculty team visited the DRDO Centre of Excellence at Bharathiar University. The visit provided valuable insights into cutting-edge research and collaborative opportunities in defense and scientific innovation.

Alumni Interaction with Faculty and Juniors



Industry Name to collected from Uma Mam

An industrial visit was organized for the students of KPR Institute of Engineering and Technology to enhance their practical knowledge and industry exposure. The visit provided students with an opportunity to understand real-time industrial operations, current technologies, and professional workplace environment.

Pasteur Institute of India, Coonoor

Events
Department

Lt. Dr. A. K. Priya organized an industrial visit to the Pasteur Institute of India, Coonoor on 16th October 2024, as a part of Honors course Enzyme Engineering. During the visit, students gained valuable insights into enzyme production, vaccine development processes, and industrial-scale biotechnological operations. The visit provided a unique opportunity for students to observe real-time applications of enzymatic processes and reinforced their theoretical understanding through practical exposure.

MSME



On 28th November 2024, Mr. Bala Guru from the Process and Product Development Centre (PPDC), MSME, visited our department. An interactive session was held in the board room, where faculty members engaged in discussions on potential collaborations, research opportunities, and industry-oriented initiatives. The visit fostered valuable academic-industry connections.

Fermion Energy Solutions Ltd., Coimbatore

Events
Department

Dr. S. Pranav, Assistant Professor II, had a discussion with Mr. Kamalhasan, Director of Fermion Energy Solutions Ltd., Coimbatore on 14th November 2024. The meeting focused on potential collaboration in the areas of renewable energy solutions, research consultancy, and industry-academia engagement. Valuable insights were shared regarding the latest developments in energy technologies and opportunities for joint initiatives. This interaction marked a positive step toward building strong partnerships with industry leaders.

Shakthi Sugars, Appakudal



I B.Tech. Chemical Engineering students visited Shakthi Sugars, Appakudal as part of their industrial exposure program on 23rd November 2024. The visit provided students with a practical understanding of sugar manufacturing processes, equipment operations, and plant safety protocols. It was a valuable learning experience that helped bridge theoretical knowledge with real-world industrial practices.

Almech Enterprise, Coimbatore

Events
Department

Mr. D. Naveen and Mr. A. Pasupathi visited Almech Enterprise, a leading supplier of laboratory equipment, as part of the department's efforts to strengthen industry-academia collaboration. They explored the latest developments in laboratory instrumentation and discussed procurement options to enhance the department's lab facilities.

Terracarb, Coimbatore



Dr. S. Pranav, Assistant Professor II, Department of Chemical Engineering, had a productive discussion with Mr. Solomon, Founder and CEO of Terracarb, Coimbatore. The meeting focused on exploring potential collaborations in the areas of sustainable materials, research opportunities, and student engagement. The interaction highlighted the mutual interest in fostering innovation through joint efforts.

Chemin Enviro Systems, SIPCOT, Perundurai

Events
Department

As part of strengthening industry-academia collaboration, Dr. S. Pranav, Assistant Professor II and Dr. S. Balasubramaniam Professor & Head, CH visited Chemin Enviro Systems, SIPCOT, Erode on 13th December, 2024. This visit focuses on exploring opportunities for student internships, industry projects, and academic partnerships to enhance practical learning experiences.

At KPRIET, we strongly believe that constant engagement with industries plays a vital role in bridging the gap between academic learning and real-world applications. Our commitment to fostering strong industry relationships ensures that students gain exposure to the latest technologies, market trends, and practical challenges. Regular interactions with industry experts allow students to understand the expectations of employers and the skills needed to excel.

Through industrial visits, guest lectures, collaborative projects, and internships, we provide platforms for experiential learning. We view every industry partnership as an opportunity to enhance our curriculum with relevant, up-to-date knowledge. Engaging with professionals helps our faculty stay informed about advancements in their respective fields. This two-way exchange of knowledge creates a culture of continuous improvement and innovation. Students benefit from mentorship by industry leaders, gaining insights into problem-solving and decision-making.

Collaborative research initiatives allow us to contribute to industry growth while fostering academic excellence.

Our placement training programs are aligned with the needs of the evolving job market. Capstone projects, in particular, serve as a bridge for students to apply classroom concepts to industrial problems. Industry engagement also enhances our understanding of sustainable and responsible practices in engineering. We believe these collaborations open doors to global opportunities for our students. Every partnership is built on mutual growth, trust, and the shared vision of advancing technology for societal benefit. At KPRIET, industry connect is not just an initiative – it's an integral part of our educational philosophy.

Carbon Zero Challenge 4.0, IIT Madras

Co-Curricular



From left to right: Ms. G. Harsha Varshini, Ms. M. Sreya, Mr. Yaswanthraj, Mr. Paveen Kumar of III B.Tech. Chemical Engineering and Ms. R. Ashlin Roshma of III B.E. Civil Engineering.

Team Schrödinger's Cat, under the guidance of Lt. Dr. A.K. Priya, has achieved a remarkable victory by securing 1st Place in the Carbon Zero Challenge 4.0. The event was held on 26th October 2024, at the NAC 2 Complex, IIT Madras. Out of 60 competing teams, Team Schrödinger's Cat was selected as one of the 10 finalists and emerged as the overall winner, showcasing innovation, sustainability, and problem-solving excellence in the field of green technology. Special congratulations to the team members for their remarkable effort. The KPRIET community congratulates the team for their outstanding performance and for making a significant contribution toward environmental innovation.

Tinkathon, Sri Eshwar College of Engineering



On 5th October 2024, Students of KPRIET took part in Tinkathon, a prestigious innovation challenge aimed at identifying creative and technological talent for incubation opportunities at IIT Madras. Hosted at Sri Eshwar College of Engineering in Coimbatore, participants showcased their innovative ideas and problem-solving skills. This key step encourages young innovators to explore cutting-edge solutions and compete on national stages like IIT Madras.

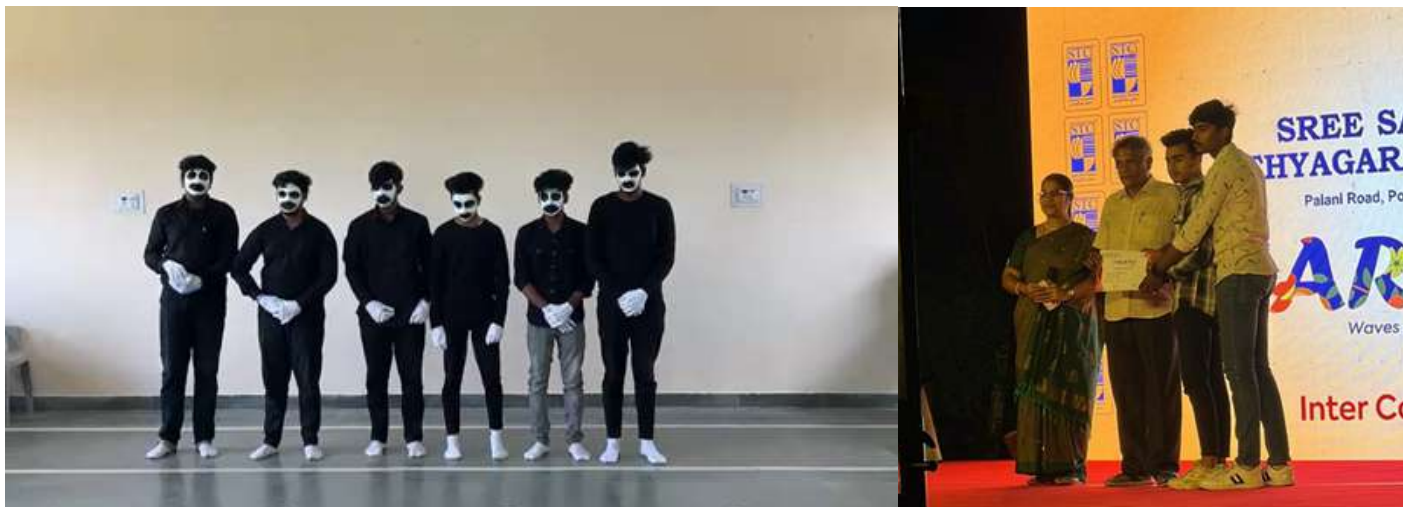


Mr. U. Muthuvel Rajan, Mr. N. Nithish Aadhitya, Mr. S. Shastharam, Mr. J. Siddeshwaran, Mr. G. Mathan, and Mr. S. Phavizhash of I B. Tech. Chemical Engineering participated in the paper presentation competition conducted by Kothari Petrochemicals held on 9th December, 2024. Among them, Mr. S. Siddeshwaran secured the Third Prize, showcasing remarkable technical insight and presentation skills. The competition provided an excellent platform for students to engage in academic discourse and gain valuable exposure.



Shree Saraswathi Thyagaraja College, Pollachi

Extra-Curricular



The Drama Club students of KPRIET, representing Sangamam, participated in the National Level Cultural Fest at Shree Saraswathi Thyagaraja College, Pollachi, and secured 1st place in the Mime Competition. Their captivating performance earned them a cash prize of ₹4,000, bringing great honor to the institution. The winning team consisted of Mr. Alhamith, Mr. Tharun, Mr. Karthik Ramasamy, Mr. Harshavarthaman, Mr. Sarath of II B.Tech. Chemical Engineering and Mr. Srihari from II B.E. Computer Science and Engineering. The KPRIET family applauds their creativity, teamwork, and dedication to the performing arts, celebrating their remarkable achievement and encouraging their continued success.

Sports

Anna University Zone Match



The KPRIET Basketball Team has brought pride to the institution by emerging as Winners in the Anna University Zone Match. This remarkable achievement reflects the team's dedication, teamwork, and sporting excellence. A special mention goes to Ms. Haritha of I B.Tech. Chemical Engineering. She can be seen in the first row from the top, eighth person from left to

right in the team photograph, symbolizing the active participation and success of Chemical Engineering students in sports at KPRIET.

RVS College of Engineering, Coimbatore

Sports



The KPRIET Men's Cricket Team has secured the 2nd Runner-Up position in the Anna University Zone IX Cricket Tournament 2024, held at RVS College of Engineering between 25th September to 3rd October 2024. A special appreciation to Mr. Sanjay, III B.Tech. Chemical Engineering student, who represented the department as part of the cricket team, contributing to this significant achievement.

Coimbatore Institute of Technology, Coimbatore



The KPRIET Men's Football Team proudly secured the 2nd Runner-Up position in the Anna University Zone IX Football Tournament 2024, held at Coimbatore Institute of Technology on 2nd and 4th October 2024. This accomplishment highlights the team's dedication, skill, and commitment to sporting excellence. Team members included Mr. Sajiban of I B.Tech. Chemical Engineering (standing second in the second row), Mr. Kenin Jenifer of III B.Tech. Chemical Engineering (standing sixth in the second row), and

(Mr. Suniston of IV B.Tech. Chemical Engineering (standing last in the second row), who played pivotal roles in this success.

Rathinam Group of Institutions, Coimbatore

Sports



The Women's Basketball Team of KPRIET secured the Winner's title in the Coimbatore Vizha Sports Fest Basketball Tournament 2024, held at Rathinam Group of Institutions on 26th November 2024. We are proud to share that Ms. Haritha of I B.Tech. Chemical Engineering played a key role in the team. She is positioned in the first row (standing), third person from left to right in the team photo. Congratulations to the team for their exceptional performance. This victory stands as a testament to their dedication, teamwork, and sporting spirit. We wish them continued success in all future tournaments.

Nehru Stadium, Chennai



KPRIET basketball team secured third Position in the Tamil Nadu Senior State Basketball Championship held at Nehru Stadium. Ms. Haritha from I B.Tech. Chemical Engineering was an integral part of the team's success. In the team photo, she is seen in the first row from the top, seventh person from the left to right.

Congratulations to Haritha and the entire team for their excellent performance and for bringing laurels to our Institute.

State-Level Aerobics Competition

Faculty



Lt. Dr. A. K. Priya, Professor, CH won Gold Medal in the State-Level Aerobics Competition held on 28th October 2024. Her exceptional performance has earned her selection to represent the state in the upcoming National-Level Aerobics Competition. This remarkable achievement is a testament to her dedication to health, fitness, and excellence beyond academics.

Guest Speakers at Team Ather Energy Limited



Dr. R. Umapriya, Assistant Professor III gave a guest talk at Ather Energy Limited, Hosur, on Saturday, 23rd November 2024. The session was part of a Team Building Event themed “Leading Through Connection, Compassion, and Collaboration.”

She addressed the importance of empathy, effective communication, and teamwork in achieving organizational success. The session was well-received and encouraged active engagement among participants. Dr. Umapriya expressed her gratitude to Team Ather Energy Limited, the Management, and the KPRIET team for the opportunity and support.

Financial Assistance from TNSCST

Faculty



Dr. S. Karunakaran, Associate Professor, Department of Chemical Engineering, has received partial financial assistance of ₹65,000 from the Tamil Nadu State Council for Science and Technology (TNSCST) for his Science and Technology publication titled “Iyarkai Velanmayil Uyir Uramum Adhan Nanmaigalum.”

The publication focuses on the benefits of organic fertilizers in natural farming, highlighting sustainable agricultural practices and their impact on soil health and crop productivity. This support from TNSCST recognizes the relevance of his work in promoting environmentally conscious and science-driven farming methods. The department congratulates

Dr. S. Karunakaran on this notable achievement and wishes him continued success in his academic and research contributions.

NPTEL Achivement



Dr. S. Balasubramanian, Professor & Head, CH, completed a 12-week NPTEL course in Organic Chemical Technology with an Elite certificate. The achievement reflects the department's dedication to research and continuous learning. His commitment to upskilling serves as an inspiration to faculty and students alike. We congratulate him on this accomplishment.



Lt. Dr. A. K. Priya, Professor, CH, has been honored with the IEEE India Council Award – Woman Technologist of the Year. The award was presented on 20th December 2024 during the IEEE India Council Awards Night held at IIT Kharagpur. This prestigious recognition celebrates Dr. Priya's outstanding contributions to technology, innovation, and research in her field. The achievement stands as a testament to her dedication and excellence, serving as an inspiration to the academic and research community. Her remarkable journey reflects a perfect blend of leadership, technical expertise, and a passion for advancing scientific knowledge. The department takes immense pride in her success and wishes her many more accolades in the years to come.

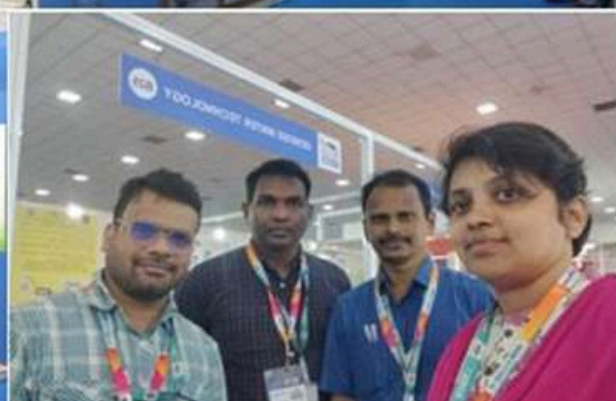
Fun Events by Staff Club of KPRIET

Faculty



The Staff Club of KPRIET conducted Surprise Fun Events followed by a special movie show on 19th October 2024. The club appreciates the enthusiastic participation of faculty members and staff, which made the event lively and memorable.

Codissia Water Expo



Our Department faculty visited Water Expo 2024 at CODISSIA, Coimbatore on 29th November 2024. The expo showcased the latest advancements in the water industry. Faculty members explored various technologies and industrial solutions. The event provided a platform for networking with industry experts. This visit encouraged industry-academia collaboration and learning.

STP on Advanced Pedagogy

Faculty



From left to right: Mr. Pradeep, Assistant Professor II, ECE, Dr. M. Laxmi Deepak Bhatlu, Assistant Professor II, CH, Ms. Suganya, Assistant Professor I, ECE and Dr. E. Nakkeeran, Associate Professor, CH

Faculty members from KPR Institute of Engineering and Technology, Coimbatore successfully participated in the Short-Term Programme (STP) on Advanced Pedagogy under the Malaviya Mission Teacher Training Programme (MM-TTP), organized by the University Grants Commission (UGC) at Coimbatore Institute of Technology (CIT) on 23rd to 28th October 2024.

This six-day program focused on enhancing pedagogical skills and innovative teaching methodologies, aimed at improving the teaching-learning process. The participation contributed to professional development and knowledge sharing in academic pedagogy.

Journal Publications

1. Saravanan, K., Manickam, R., Govindasamy, C., El Newehy, A. S., Hussein-Al-Ali, S. H., & Senthilkumar, S. (2024). Fabrication of verrucar-in-a-loaded zinc oxide nanocomposite for inducing apoptosis in triple-negative breast cancer cells. *Process Biochemistry*, 145, 13-21.
2. Karunakaran, S., Emerging trends in the development of smart adsorbents. *Emerging trends in the development of smart adsorbents*.
3. Priya, A. K., Alghamdi, H. M., Kavinkumar, V., Elwakeel, K. Z., & Elgarahy, A. M. From biomass waste to bioaerogels-An alternative sustainable approach for wastewater remediation. *International journal of biological macromolecules*, 136994.
4. Priya, A. K., Muruganandam, M., Venkatraman, Y., & Sagadevan, S. (2024). Recent advances and synergistic interactions in graphene-based polymer nanocomposites for enhanced gas sensing applications. *Journal of Alloys and Compounds*, 1008, 176599.
5. Kowsalya, R., Saravanan, K., Selvam, K., Senthilkumar, B., & Senbagam, D. (2024). Enhanced lipase production and characterization from *Aeromonas media* VBC8: Applications in biodegradation of lubricating oil waste. *Biocatalysis and Agricultural Biotechnology*, 62, 103423.

Book Chapter Publications

1. Loganathan, D., Muthu, J. I. M., & Muthukrishnan, G. Environmental Pollution from Industrial Wastewater and its Bioremediation. In *Recalcitrant Pollutants Removal from Wastewater* (pp. 119-140). CRC Press.



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Department of Chemical Engineering



2 Issue

October - December, 2024

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