KPR Institute of Engineering and Technology

Learn Beyond (Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

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Department *of*
Chemical Engineering

AGGLOMERATION

NEWSLETTER

- vision and mission
- message from HoD
- events
- talks
- faculty achievements
- students achievements
- campus placements
- research

Vision and Mission Institute

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 and Mission Department

Vision

To be a center of academic and research excellence in chemical engineering, empowering students, supporting innovation, and making meaningful contributions to 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

Message from Head of the Department

Dr. S. Balasubramanian
Prof. & Head, ChemE

On behalf of the Department of Chemical Engineering at KPR Institute of Engineering and Technology, Coimbatore, it is our utmost pleasure to present the newsletter "Agglomeration" for the academic year 2022-2023. This year has been exceptionally fruitful, marked by a range of activities encompassing joyful teaching, learning, research, and administration. We commenced the academic year with a remarkable accomplishment, achieving a one hundred percent admission rate for our undergraduate B.Tech. Chemical Engineering program, meeting the sanctioned strength. Subsequently, we organized an orientation program for the freshmen students, followed by the commencement of classes. The classes for sophomore, junior, and senior students were initiated prior to the freshmen classes. We welcomed new faculty members who possess exceptional academic and research backgrounds, contributing to the growth and development of our department. In this academic year, we successfully conducted two board of studies meetings and obtained research center recognition from Anna University.

Engineers Day was celebrated with our students, providing a platform to acknowledge and appreciate the best faculty, mentors, student achievers, and supporting staff in the department during our annual day functions. Our students actively participated in various co-curricular and extracurricular activities both within our campus, neighbouring colleges, and prestigious institutes throughout India. Their outstanding achievements brought honour and recognition to the department and the institute.

A farewell event was organized to express gratitude to our second batch of senior students (2019-2023), creating cherished memories for the department. Moreover, we successfully organized technical seminars and guest lectures featuring speakers from renowned industries, premier institutes, and research centers in India and abroad. Our faculty members have also received funds from professional associations such as the Institution of Engineers (IEI), India, and the Indian Desalination Association for the conduct of seminars and Faculty Development Programs (FDP). Our esteemed faculty members have made significant contributions by publishing papers in peer-reviewed international journals. They have also enriched their knowledge through industry internships, faculty development programs, and delivering lectures both within and outside the campus. Our students have gained valuable experience through internships at top process industries such as Britannia, SPIC, and DCW.We are happy to announce that our students have secured placements in more core companies such as Praj Industries, SPIC, Deccan Chemicals, Orchid Pharma, Anjan Drugs etc. in this academic year, highlighting their expertise and the quality of education provided by our department.

Additionally, we have established a Memorandum of Understanding (MoU) with M/s. Praj Industries Limited, Pune, India, a globally recognized company in the field of bio-based technologies and engineering. Furthermore, South India Textile Research Association (SITRA) has extended their MoU with us for an additional two years, emphasizing the mutual knowledge transfer between our organizations.

Our students successfully organized a technical event, FIESTA 2023, showcasing their skills and talent.

The department also facilitated industrial visits for both students and faculty members, providing practical exposure and insights.

The academic year 2022-2023 has been immensely successful and filled with memorable moments for our department. We extend our heartfelt gratitude to our Management, Chief Executive, Principal, Parents, Students, and all the statutory and non-statutory members of the department and the Institute for their unwavering support in all our endeavours.

Let us once again carry forward this legacy to the upcoming academic year 2023-2024 and celebrate the success of our students in all their future endeavours.

“Education is the foundation, innovation is the catalyst, and perseverance is the key to unlocking the potential of chemical engineers. May our students continue to shine bright and make remarkable contributions to the field”.

-Thank you

INSIDE NEWSLETTER

About Department

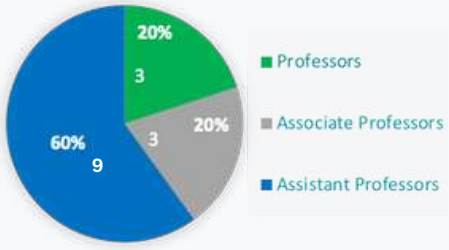
Students Enrollment

235

Faculty Strength 15

Students - Faculty Ratio 14.07

Faculty Cadre Distribution



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Patents

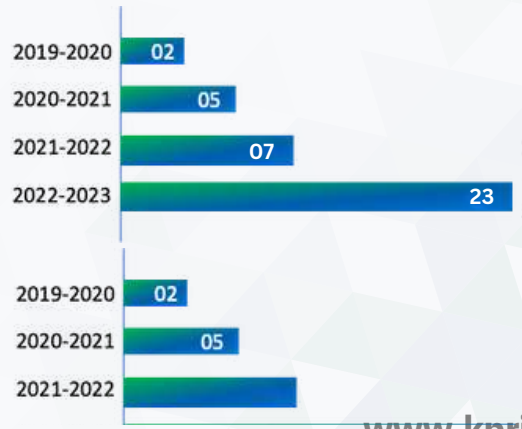
MoUs Signed 1

B. Tech. Chemical Engineering Started in the Year 2018

Faculty Research Area

1. Advanced Process Control
2. Biofertilizers
3. Bioremediation
4. Ceramic Membranes
5. Computational Fluid Dynamics
6. Crude Oil Fouling
7. Industrial IOT
8. Microfluidics (Lab-on-a-Chip)
9. Nanomaterial
10. Perovskite solar cells
11. Process Modeling and Simulation
12. System Identification
13. Water and Wastewater Treatment

Publications



Paper Publications 37

Highest Impact Factor 11.1

Average Impact Factor 5.716

MoU with Praj Industries
14th July, 2022

Events Department

The Department of Chemical and Mechanical Engineering, in collaboration with the Industry Institute Partnership Cell at KPRIET, is proud to announce the signing of a Memorandum of Understanding (MoU) with Praj Industries Limited, a prominent Indian multinational process and project engineering company based in Pune, Maharashtra. We take immense pleasure in declaring that KPR Institute of Engineering and Technology is the first educational institution in India to establish this MoU with Praj Industries Limited.

This MoU opens up a world of opportunities for our students and faculty members, allowing them to enhance their knowledge and gain valuable experience in the field of bioenergy. We extend our special gratitude to our esteemed Madam Principal, the management team, and the entire Praj Industries team for their support and collaboration. Additionally, we would like to express our heartfelt appreciation to our dedicated faculty members and enthusiastic students for their involvement in making this partnership a reality.

Left to right:
Dr. S. Balasubramanian, Head of the Department of Chemical Engineering; Dr. M. Ramasamy, Strategic Adviser and Professor in the Department of Chemical Engineering; Dr. M. Akila, Principal of KPRIET; Sanjeev Khandekar, Chief Human Resource Officer at Praj Industries, Pune.

MoU with Praj Industries
(14th July, 2022)

Events Department

Milind Bava, General Manager of Human Resources at Praj Industries, engaging in an interactive session with our students.

Executive Members of Praj Industries team engaging in interaction with our esteemed Principal.

Team Praj Industries interacting with our students.

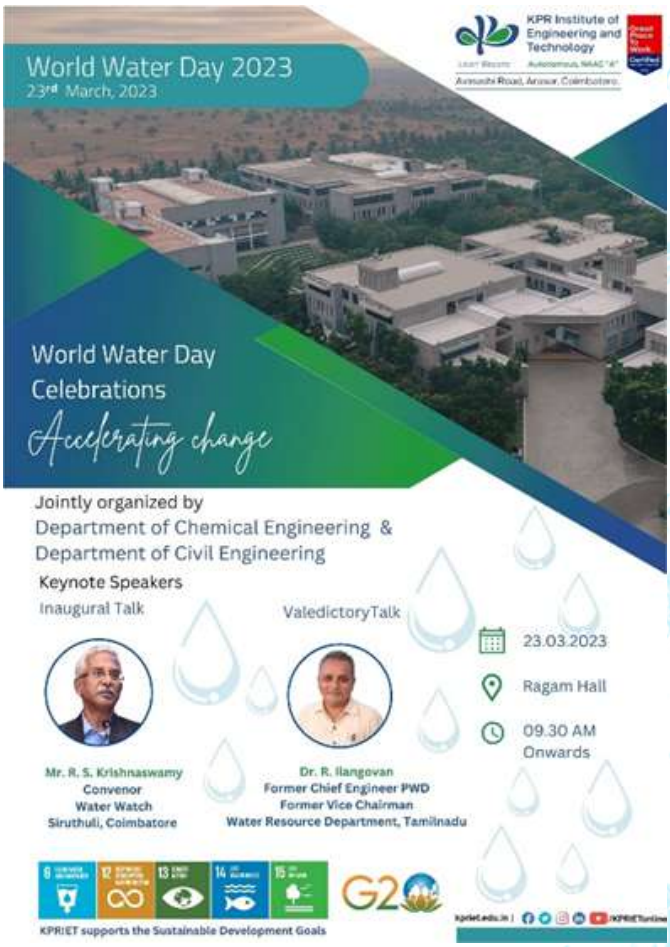
World Water Day Celebration
23 March, 2023

Events Department

The Department of Chemical Engineering and the Department of Civil Engineering at KPRIET came together to celebrate World Water Day 2023 on March 23rd. The event was graced by a Presidential address delivered by our esteemed Principal, Dr. M. Akila, and an Inaugural talk presented by Mr. R. S. Krishnaswamy, Convenor of Water Watch, Siruthuli.

We were truly inspired by the remarkable efforts undertaken by Mr. R. S. Krishnaswamy and his team at Siruthuli in rejuvenating numerous water bodies in Tamil Nadu and its surrounding areas. His impactful presentation showcased the power of community-driven initiatives in making a positive difference to our environment. It serves as a powerful reminder for all of us to take action and actively contribute towards conserving our invaluable water resources.

Let us unite and reaffirm our commitment to preserving and conserving our limited water supplies for the betterment of future generations. This meaningful event aims to raise awareness about the significance of safeguarding water resources and sensitizing us to the importance of responsible water usage. Together, let us pledge to incorporate conservation practices into our daily lives, ensuring the protection of water for the well-being of future generations.



World Water Day Celebration
23rd March, 2023

Events
Department

Left to right: Dr. G. Anusha, Head of the Department of Civil Engineering; Mr. R. S. Krishnaswamy, Convenor of Water Watch, Siruthuli; Dr. M. Akila, Principal of KPRIET; Dr. S. Balasubramanian, Head of the Department of Chemical Engineering; Dr. E. Nakkeeran, Associate Professor in the Department of Chemical Engineering at KPRIET.

Mr. R. S. Krishnaswamy, Convenor of Water Watch, Siruthuli, delivering a speech to the students of Chemical and Civil Engineering during the inaugural session of the World Water Day Celebrations 2023

World Water Day Celebration
23 March, 2023

Events
Department

Students of Chemical and Civil Engineering actively listening to the speech delivered by Mr. R. S. Krishnaswamy, Convenor of Water Watch, Siruthuli

Madam Principal honoring the esteemed chief guest, Mr. R. S. Krishnaswamy, Convenor of Water Watch, Siruthuli.

World Water Day Celebration
23 March, 2023

Events
Department

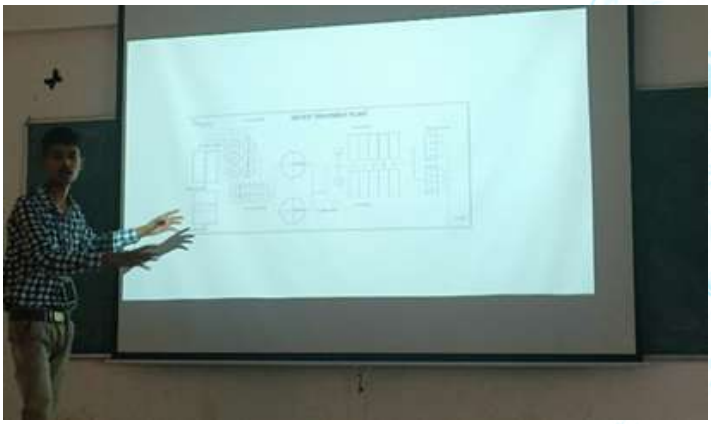
Competitions conducted as a part of World Water Day 2023

Drawing competition

Essay writing competition

Poster presentation

Short film



Plant design competition

Sewage treatment plant visit

All India Seminar
23 & 24 December, 2022

Events Department

The Department of Chemical Engineering at KPR Institute of Engineering and Technology, in collaboration with The Institution of Engineers, Coimbatore Local Centre, organized an insightful All India Seminar on "Wastewater Treatment Systems: Water Efficient Technologies and Opportunities" on December 22 and 23, 2022. This seminar provided a platform for participants to delve into the latest advancements in water-efficient technologies. Renowned resource persons shared their wealth of knowledge, providing valuable insights and experiences to enhance participants' understanding of the global water crisis. Through engaging discussions, attendees had the opportunity to develop their own ideas and gain a deeper understanding of current practices, emerging innovations, and historical trends in wastewater treatment systems.

We are grateful to all the participants for joining us in this significant event and hope that they were able to leverage the shared knowledge to their advantage. We express our sincere appreciation for the attendance and contributions made by everyone, as it greatly contributed to the success of the seminar. Moving forward, we remain committed to expanding our understanding and collective efforts in addressing the global water crisis.

Left to Right: Er. Samidas, Dr. Shanmugam - IEI Chairman Coimbatore Local Chapter, Mr. Thaj Mohammed Khaleel, Proprietor, Khaleel Tanning Company, Erode, Dr. S. Balasubramanian, Professor & Head / ChemE, KPRIET, Lt. Dr. A. K. Priya, Professor / ChemE, KPRIET

Inauguration of the sponsored All India Seminar on Wastewater Treatment Systems: Water efficient technologies and opportunities, organized by the Coimbatore local chapter of IEI (Institution of Engineers India).

Institution of Engineers (IEI) All India Seminar
23 and 24 December, 2022

Events Department

Resource persons sharing knowledge with our students

Dr. R. IIlango, Former Chief Engineer, PWD, Former Vice Chairman, Water Resource Department, Tamil Nadu in Thanam Hall

Dr. R. Umapriya, Asst. Prof (Sl. G) / ChemE in Thanam Hall

Lt. Dr. A K. Priya, Professor / ChemE in Thanam Hall

Mr. K. Murugesan, Asst. Prof (Sr. G) / ChemE in Thanam Hall

> **Water is my life, My happiness, My teacher**
>
> - Rajendra Singh
> (The Water Man of India)

Faculty Development Program - RAWt2022
17- 21 October 2022

Events Department

On Day1, the Department of Chemical Engineering at KPRIET, in collaboration with the Indian Desalination Association, successfully organized a Faculty Development Program (FDP) on Recent Advancements in Water Treatment - RAWt-2022 on October 17th, 2022. The FDP commenced with a warm welcome speech delivered by Dr. S. Balasubramanian, Head of the Department of Chemical Engineering. Dr. A. Sowmya, Convener of the FDP, highlighted the significance of the workshop.

We were pleased to have a total of 82 participants from esteemed organizations across India, including two participants from Oman. The first session at 10:30 AM featured a talk on "Offshore Desalination Technologies" by Dr. G. Venkatesan, Scientist F from NIOT. He provided valuable insights into the various Low Temperature Thermal Desalination Plants developed and implemented by the National Institute of Ocean Technology at different islands in India. The second session focused on "Electrochemical Processes for Purification of Water Contaminants" presented by Dr. S. Vasudevan, Chief Scientist & Professor from CECRI-Karaikudi, which proved to be an outstanding and informative session.

On Day 2, we had two expert talks on "Lab-on-a-Chip Technologies" by Dr. Ashish Kapoor, Professor from HBTU-Kanpur, and "Hybrid Nanocomposites" by Dr. G. Arthanareeswaran, Professor from NIT-Trichy. The Day 3 featured talks on "Metal-Organic Frameworks" by Dr. N. Viswanathan, Senior Assistant Professor from Anna University (Dindigul Campus), and "Bio-ozolyte Process" by Dr. G. Anusha, Professor & Head of the Department of Civil Engineering, KPRIET.Dr. S. Meenakshi, Director of R&D at The Gandhigram Rural Institute-DU, and Dr. S. Mathava Kumar from IIT-Madras served as resource persons on Day 4, sharing their insights on "Photocatalytic Water Treatment" and "Biological Nutrient Removal."

On Day 5, we had a session on "Hybrid Renewable Power System for Desalination" by Dr. R. Nagaraj, Scientific Officer G, BARC, Kalpakkam, and a talk on "Current Advances in Membrane Technologies" by Dr. E. Poonguzhali, Assistant Professor of Chemical Engineering, SRMIST. All the sessions were highly engaging, providing valuable information to participants as reflected through their interactions and feedback. The FDP concluded with a valedictory session on October 21st, 2022, at 12:30 PM, where the convener summarized the highlights and outcomes of the FDP- RAWt-2022.

Faculty Development Program - RAWt2022
17- 21st October, 2022

Events Department

DAY 1
17 Oct 2022

Inaugural Session- 10 AM

Welcome Address
Dr.S.Balasubramanian
Prof. & Head
Convenor- RAWt 2022
Department of ChemE
KPRIET

About the FDP
Dr. A. Sowmya
Assistant Professor (Sl.G)
Convener-RAWt 2022
Department of ChemE
KPRIET

Valedictory Session 21 Oct 2022 12.30 PM

DAY 1
17 Oct 2022

Expert Talk - 10 . 30 AM

OFFSHORE DESALINATION TECHNOLOGIES

Dr.G.Venkatesan
Scientist F
National Institute of OceanTechnology
Chennai, Tamil Nadu

Expert Talk - 11 . 30 AM

ELECTROCHEMICAL PROCESSES FOR PURIFICATION OF WATER CONTAMINANTS

Dr. S. Vasudevan
Chief Scientist & Professor
Electroinorganic Chemicals Division
CSIR-CECRI
Karaikudi, Tamil Nadu

DAY 2
18 Oct 2022

Expert Talk - 10 AM

LAB-ON-A-CHIP TECHNOLOGIES FOR THE DETECTION OF WATER POLLUTANTS

Dr. Ashish Kapoor
Professor
Department of ChemE
Harcourt Butler Technical University
Kanpur, Uttar Pradesh

Expert Talk - 11.15 AM

HYBRID NANOCOMPOSITES FOR WASTEWATER TREATMENT

Dr. G. Arthanareeswaran
Professor
Department of ChemE
NIT- Trichy
Tamil Nadu

DAY 3
19 Oct 2022

Expert Talk - 10 AM

METAL-ORGANIC FRAMEWORKS FOR POLLUTANT CAPTURE FROM WATER

Dr. N. Viswanathan
Senior Assistant Professor
Department of Chemistry
Anna University
UCE-Dindigul
Tamil Nadu

Expert Talk - 11 . 15 AM

BIO-OZOLYTE PROCESS FOR THE BIOREMEDIATION OF LAKE

Dr. G. Anusha
Professor and Head
Department of Civil Engineering
KPRIET
Coimbatore, Tamil Nadu

DAY 4
20 Oct 2022

Expert Talk - 10 AM

RECENT TRENDS IN PHOTOCATALYTIC TREATMENT OF AQUATIC POLLUTANTS

Dr. S. Meenakshi
Director (R&D) & Professor
Department of Chemistry
The Gandhigram Rural Institute DU
Dindigul, Tamil Nadu

Expert Talk - 11 . 15 AM

BIOLOGICAL NUTRIENT REMOVAL FROM WASTEWATER

Dr. S. Mathava Kumar
Associate Professor
Department of Civil Engineering
IIT-Madras
Chennai, Tamil Nadu

DAY 5
21 Oct 2022

Expert Talk - 10 AM

HYBRID RENEWABLE POWER SYSTEM FOR DESALINATION APPLICATION IN REMOTE LOCATIONS

Dr. R. Nagaraj
Scientific Officer-G
NDDP
Baba Atomic Research Centre
Kalpakkam, Tamil Nadu

Expert Talk - 11.15 AM

CURRENT ADVANCES IN MEMBRANE TECHNOLOGIES FOR SALINE WASTEWATER TREATMENT

Dr. E. Poonguzhali
Assistant Professor
SRMIST
Kattankulathur
Chengalpattu, Tamil Nadu

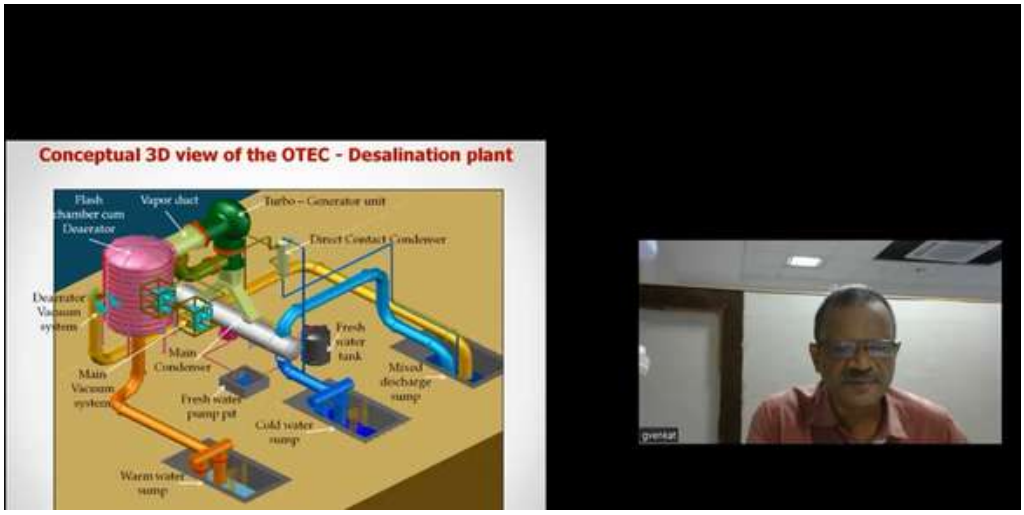
> "If there is magic on this planet, it is contained in water"

Faculty Development Program - RAWt2022
(17- 21 October, 2022)

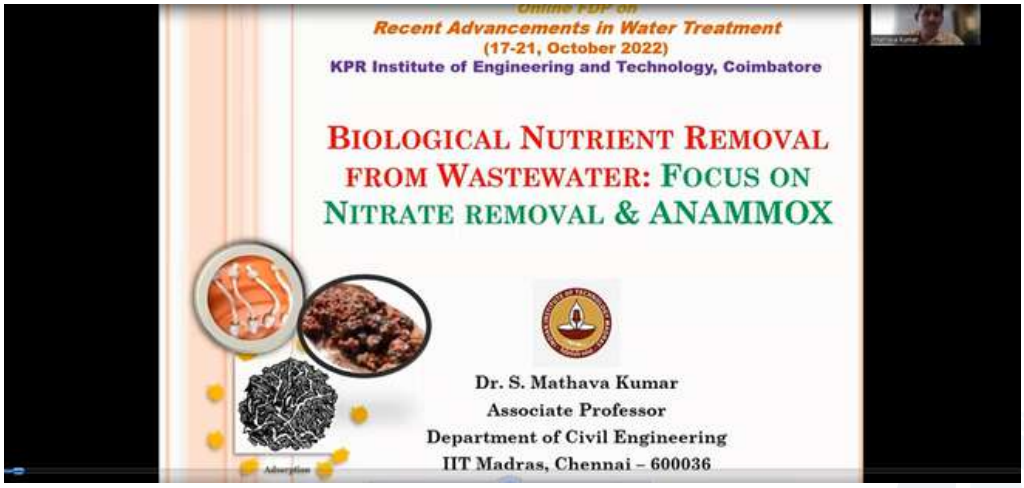
Events Department

Faculty Development Program - RAWt2022
17- 21st October, 2022

Events Department



Dr.G. Venkatesan, Scientist F from NIOT; "Offshore Desalination Technologies"



Dr.S.Mathava Kumar: Biological Nutrient Removal from Wastewater: Focus on Nitrate Removal & ANNAMOX

Visit of Prof. Yoshimitsu Uemura

Events Department

The Department of Chemical Engineering had the pleasure of hosting Prof. Yoshimitsu Uemura from Japan. During his visit, he graciously shared his wealth of knowledge and experiences with our faculty members on a range of topics including teaching-learning methodologies, infrastructure development, patents, grants, and consultancy. Additionally, he provided invaluable guidance and insights to our students regarding higher education opportunities and foreign internships.
Prof. Uemura's visit proved to be a transformative experience for all of us. Every word he spoke enriched us with knowledge, provided profound insights, and bestowed wisdom upon us. His exceptional expertise in the field of engineering and technology was truly unparalleled, and we were fortunate to have learned so much from his presence.

We express our deepest gratitude to Prof. Uemura for generously imparting his invaluable knowledge and sharing his experiences with us. His visit served as a tremendous source of inspiration, and we take immense pride in having welcomed him to our campus. We are motivated by his words and eagerly anticipate implementing the wisdom gained from his guidance in the near future.

Team KPRIET, led by Principal M. Akila, Director of KPR International Center Prof. Manikadan, and Strategic Advisor Prof. M. Ramasamy, extends a warm welcome to Professor Yoshimitsu Uemura

Visit of Prof. Yoshimitsu Uemura

Events Department

Professor Yoshimitsu Uemura engaging in an insightful discussion with our faculty members on research and development activities within the department.

Professor Uemura Yoshimitsu in an interactive session with our chemical engineering students, discussing the career prospects in industry, research, academia, and entrepreneurship within the field of Chemical Engineering.

Inauguration of Chemical Engineering Association - 13 August, 2022

Events Department

We take immense pleasure in announcing the inauguration of the Chemical Engineering Association in collaboration with the Indian Institute of Chemical Engineers (IIChE) students on August 13th, 2022. The ceremony was graced by the esteemed presence of Dr. M. Vivekanandhan, M.E, PhD, Founder and CEO of TRY CAE Industrial Engineering Private Limited, Trichy. Following the inaugural ceremony, our chief guest delivered a truly impactful speech, shedding light on the paramount importance of chemical engineers in our day-to-day lives.

Inauguration of Chemical Engineering Association - 13th August, 2022

Events
Department

Dr. M. Vivekanandhan, Founder and CEO of TryCAE Industrial Engineering Pvt. Ltd., Trichy, Tamil Nadu, addressing our students during the inaugural session of the Chemical Engineering Association with IIChE Students Chapter in Thanam Hall at KPRIET.

Engineer’s Day Celebration (23rd September, 2022)

Events Department

Engineer's Day serves as a momentous occasion to celebrate the remarkable achievements and significant contributions of engineers to our society. It is a time to honour their exceptional work in shaping our world and enhancing the quality of life for all individuals. This day provides an opportunity to recognize the unwavering dedication, passion, and commitment that engineers bring to the table as they strive to solve complex problems, advance scientific understanding, develop innovative technologies, and inspire us to pursue better solutions.

In commemoration of Engineer's Day on September 23, 2022, the Department of Chemical Engineering organized a special guest lecture. Mr. M. Sabarinathan, Production Manager at Lindstrom Service India Pvt. Ltd, Bangalore, India, delivered an enlightening lecture on "Quality Management Systems in Chemical Process Industries." The guest lecture shed light on how quality management systems ensure the successful production of goods and enhance overall operational efficiency. Throughout the lecture, students gained valuable insights into the significance of utilizing advanced tools and resources in process engineering. They also developed a deeper appreciation for the tireless efforts of engineers in ensuring the provision of safe and high-quality chemical products. We extend our heartfelt gratitude to Mr. M. Sabarinathan for taking the time to impart essential knowledge to our students, contributing to their growth and development as future engineers.

Events Department

Engineer's Day Celebration (23rd September, 2022)

Our esteemed Chief guest, Mr. M. Sabarinathan, Production Manager from Lindstrom Service India Pvt. Ltd, Bangalore, India, addressing our students during the celebration of Engineers Day.

Dr. S. Balasubramanian, Head of Department of Chemical Engineering,vpresenting an honour to our esteemed Chief guest, Mr. M. Sabarinathan, Production Manager at Lindstrom Service India Pvt. Ltd, Bangalore, India, during the celebration of Engineers Day.

Industrial Visits

Events Department

Samson Industry, Tirupur (23rd July 2022)

The Department of Chemical Engineering organized a visit to Samson Industry, Tirupur for the students under the guidance of Mr. K. Murugesan, Assistant Professor (Sr. Gr). This visit presented our students with a valuable opportunity to explore the renowned organization's cutting-edge facilities in oil testing and quality regulation. Engaging in this practical experience helped to enrich their understanding of the industry and its operations.

Assistant Professor (Sr.Gr) Mr. K. Murugesan from the Department of Chemical Engineering accompanying our students during their visit to Samson Industry, Tirupur.

Sree Rengaraj Ispat Private Limited, Erode (10th September, 2022)

Sree Rengaraaj Steels is a renowned steel manufacturing company founded by Mr. P. V. Pandurangan. The group was founded as a small start-up and has grown to a significant position with 5 individual units over the years – with the help of visionary leadership of Mr. P. V. Pandurangan located in Perundurai, Erode. The students were thrilled to experience the real industrial scale equipment. The Industrial visit was extremely beneficial for the students.

Dr. R. Umapriya, Assistant Professor (Sl.Gr), Ms. L. Dharani, Assistant Professor and II B.Tech. Chemical Engineering students along with the Plant Manager

Events Department

Industrial Visits

Xytel India Limited (November 16, 2022)

Department of Chemical Engineering in association with Industry Institute Partnership Cell, KPRIET visited Xytel India Limited, a premium pilot plant company located in Pune, Maharashtra. Xytel India is engaged in supply of skid-mounted/modular and fully automated Pilot/Mini Plants on turnkey basis. Xytel provides turnkey pilot plant solutions from concept to commissioning. Each of the system building begins as an idea, and carefully nurtured to its logical end. By efficiently adapting the customer's process knowledge with its engineering expertise, Xytel has helped customers achieve their R & D success stories. The visit will help us achieve our goal of producing graduates with industrial expectations and incorporating Industry 4.0 into the curriculum.

Dr. R. Anandkumar, Associate Professor, Department of Mechanical Engineering and Dr. S. Balasubramanian, Professor & Head, Department of Chemical Engineering at Xytel India Limited, Pune

Dr. M. Ramasamy, Professor, Department of Chemical Engineering and Dr. S. Balasubramanian, Professor & Head, Department of Chemical Engineering at Xytel India Limited, Pune. The entire visit to Xytel India was fruitful. Xytel India has agreed to support Chemical Engineering, KPR Institute of Technology, Coimbatore in terms of technical support for laboratory expansion, research collaboration and in turn student placements. Team Xytel also showed their pilot plant manufacturing facilities at Pune and their services to pharmaceutical, food processing, bioprocessing, fuel, oil and gas industries. It is also worth mentioning to note that the xytel is interested in taking up plastics recycling projects with KPRIET ChemE

Team Xytel headed by Mr. Rajeev Hallur, Managing Director

Virtuoso Projects and Engineers Private Limited (November 15, 2022)

The Department of Chemical Engineering in collaboration with the Industry Institute Partnership Cell, KPRIET, made a visit to Virtuoso Projects and Engineers Private Limited, Pune. Virtuoso Projects & Engineers Pvt. Ltd. started with 5 engineers in 2011. Within a short span of time, it has transformed into an organization of 400+ employees with a state-of-the-art integration facility and implementing turnkey projects in process automation. Virtuoso acts as a partner with the expertise and track record to deliver unmatched success in the Electrical and Automation projects and services domain. They work across a variety of control platforms for engineering services like Honeywell, Emerson, Rockwell, Siemens, GE, Schneider, Yokogawa Control system. We believe that this visit will have a positive impact on the placement of our students in various industries.

Team KPRIET at Virtuoso Projects and Engineers Private Limited

Kavin Engineering Private Limited, Coimbatore

Faculties from the Department of Chemical Engineering, KPRIET made a visit to Kavin Engineering and Services Private Limited, Coimbatore. Kavin Engineering and Services Private Limited is one of the leading Engineering and Services company, providing superior, customized concept to commissioning services for Oil & Gas production and processing facilities, both off & onshore. During the visit, the faculty members had the opportunity to learn about the company's operations, latest technology and processes. They also discussed possible collaborations with the company in areas such as research, development, and training. This visit will help our faculty to develop a better understanding of the Oil and Gas industry and its new developments. We thank our faculty members for their commitment which will undoubtedly benefit our students and institute.

Team Chemical Engineering, KPRIET at Kavin Engineering Private Limited, Tidal Park, Coimbatore.

Industrial Visits

Events Department

Praj Industries, Pune (November 16, 2022)

The Department of Chemical Engineering in collaboration with the Industry Institute Partnership Cell, KPRIET made a visit to Praj Industries in Pune, India's most successful company in the field of bio-based technologies and engineering, with a global presence. With a humble beginning as a supplier of ethanol plants, today Praj is a globally leading company with a bouquet of sustainable solutions for bioenergy, high-purity water, critical process equipment, breweries and industrial wastewater treatment. Headquartered in Pune, India, Praj has spread its presence across the globe with 1000+ References in 100+ countries across all 5 continents. We are delighted to remember that KPR Institute of Engineering and Technology is the first Educational Institution in India to sign an MoU with Praj Industries Limited. The MoU helps our students and faculty members to expand their knowledge and experience in the field of bioenergy.

From left to right: Dr. R. Anandkumar, Associate Professor, Department of Mechanical Engineering, KPRIET, Mr. Milind Bava, General Manager, Praj Industries, Dr. S. Balasubramanian, Professor and Head, Department of Chemical Engineering & Dr. M. Ramasamy, Professor, Department of Chemical Engineering, KPRIET.

Events
Department

Industrial Visits

Praj Industries, Pune (November 16, 2022)

From Left to Right: & Dr. M. Ramasamy, Professor, Department of Chemical Engineering, KPRIET, Mr. Kandekar, Praj Industries and Dr. S. Balasubramanian, Professor and Head, Department of Chemical Engineering, KPRIET.

Team Praj Industries at Critical Equipment Manufacturing Centre named as Sanaswadi, Pune, Maharastra

From Left to Right: Mr. Milind Bava, General Manager, Praj Industries, Dr. S. Balasubramanian, Professor and Head, Department of Chemical Engineering, KPRIET, Ms. Nidhi Dhanju, Praj Inudstries & Dr. M. Ramasamy, Professor, Department of Chemical Engineering, KPRIET.

Industrial Visits

Food Processing Center, PSG College of Arts and Science, Coimbatore

Faculty members from the department of Chemical Engineering visited the Food Processing Centre of PSG College of Arts and Science, Coimbatore. During the visit, the team explored the various processes employed at the centre including food production and packaging. During the visit, the faculty members engaged with the staff of the centre, gaining valuable insights and knowledge on how to apply chemical engineering to food production and packaging.

ISRO, Thiruvanandhapuram, Kerala

Department of Chemical Engineering organized an Industrial Visit to ISRO Thiruvanandhapuram, Kerala by Dr. R. Bharathi Ganesan, Assistant Professor (Sr.G) and Dr. R. Umapriya, Assistant Professor (Sl. Gr), Department of Chemical Engineering, KPRIET. On September 16, 2022, the team visited the Space Museum at Vikram Sarabhai Space Center in Thiruvananthapuram. The museum showcased how the Indian Space Research Organization (ISRO) impacts various aspects of our daily lives, such as telecommunications, weather forecasting, agriculture, and more. Students learned about different satellites, their uses, and saw prototypes of launch vehicles and engines. The guide explained the challenges of re-entry and the Gaganyaan program for human spaceflight. Overall, it was a fascinating and educational experience.

Events Department

Industrial Visits

Pasteur Institute of India, Coonoor, Tamilnadu

Lt. Dr. A. K. Priya Professor & Associate Head, Department of Chemical Engineering and Dr. S. Karunakaran, Associate Professor, Department of Chemical Engineering arranged an Industrial visit to Pasteur Institute of India, Coonoor, Tamilnadu for the final year students of chemical engineering department This trip was a unique opportunity for students to gain knowledge, explore their areas of interest, and engage in activities that could help them gain insight into the world of industrial operations. Our team of professionals made sure that this visit is educational and entertaining

M/s. Seshasayee Paper and Boards Limited, Pallipalayam, Erode

The Department of Chemical Engineering organized an Industrial Visit on 25 April, 2023.
Dr. S. Bharathi Ganesan, Assistant Professor (Sr.Gr), and Mr. K. Murugesan, Assistant Professor (Sr.Gr), took a group ofenthusiastic students to Seshasayee Paper and Boards Limited, Pallipalayam, Erode. During the visit, the students were given an in-depth tour of the manufacturing facilities and were shown how the entire process of paper production takes place, from raw materialsto finished products. The students got to see the machinery in action and learn about the various stages of the manufacturing process, including pulping, bleaching, and papermaking. Furthermore, the students had the opportunity to interact with the industry professionals, who shared their experiences and provided valuable insights into the manufacturing process. The students were also able to witness

Celebrations

Onam Celebration - 6th September, 2022

Ayudha Pooja Celebration
1 October, 2023

The Department of Chemical Engineering celebrated Ayudha Pooja on October 01, 2022. It was a \wonderful occasion to celebrate the accomplishments of our students and faculty. The day was filled with festive activities and we are thankful to everyone who took part in the celebrations. May we continue to strive for excellence and success in all our endeavours.

Events Department

Celebrations

Thanksgiving Day
22 November, 2022

Thanksgiving in educational institutions is a time for students, faculty, and staff to come together and give thanks for the opportunities they have been given. It is a time to reflect on the successes of the past year and to look forward to the future. As a part of Thanksgiving Week on November 22, 2022, the Department of Chemical Engineering is overjoyed to receive a token of love from our cherished students.

Students of the Chemical Engineering Department presented a wall clock to our faculty members as a symbol of thanksgivingng.

Madam Principal Birthday (2nd December, 2022)

Department of Chemical Engineering was happy to celebrate the birthday of our beloved Principal Dr. M. Akila on 02 December, 2022. We wanted to show our appreciation for her leadership, being a role model and mentor to us all, by presenting her with a thoughtful gift. We also had a chance to offer our best wishes for health, happiness, and success on this special day. Thank you, Madam Principal, for all that you do for us and our institution.

The team headed by Dr. S. Balasubramanian,
Professor & Head, Department of Chemical Engineering presenting a token of love to our Madam Principal

Celebrations

Events Department

KPR Mini Marathon (07th December, 2022)

KPR Institute of Engineering and Technology organized a Mini Marathon on 4 December, 2022. The goal of the KPR Mini Marathon event is to reduce the stigma surrounding mental health. The Department of Chemical Engineering is extremely proud of our faculty members and their family for their participation in the marathon. Our faculty members have shown their commitment to mental health by taking part in these events and helping to spread the message.

Students Symposium DEMETRA 2023

The Department of Chemical Engineering in association with the Chemical Engineering Association organized Intra College Symposium on 5 November, 2022. The students actively participated in various technical and cultural events like paper presentation, quiz, dancing, singing photography etc. The symposium aimed to provide a platform for our students to showcase their technical and cultural skills, and we were delighted to witness the exceptional talent and enthusiasm displayed throughout the day. The event featured a wide array of activities and competitions, ranging from technical presentations to cultural performances.

The cultural events added an extra dash of energy and entertainment to the symposium. We witnessed outstanding dance performances that showcased the diversity and talent of our students. We would like to extend our heartfelt gratitude to all the participants, judges, and volunteers who contributed to the success of the symposium.

Celebrations

Students Symposium DEMETRA 2023

Quiz competition judged by Dr. Umapriya, Assistant Professor (Sl.Gr) and Ms. L. Dharani, Assistant Professor/ChemE

Student presenting her project idea to Dr. Nitukumari, Assistant Professor (Sr.Gr)/CH

Students crowd in the cultural show organized by students of ChemE as a part of Demetra 2022 at Open Air Theatre of KPR Insitute of Engineering and Technology, Coimbatore

Events
Department

Celebrations

Students Symposium DEMETRA 2023

Cultural event compered by Mr. Surya Prakash and Ms. Mageswarii of II B.Tech. ChemE

Celebrations

Events Department

Farewell 2019 - 2023 Batch ChemE Students

Congratulations on reaching this milestone, May your future be filled with success and style. As you step into the world with courage and might, May your dreams take flight and reach new heights. Wishing you all the best as you embark on your next chapter, May it be filled with joy, growth, and laughter.

TECHNICAL TALKS

Guest Lecture

Guest Lecture for Faculties
20 July, 2022

Department of Chemical Engineering and Centre for Human Excellence jointly organized a guest lecture on July 20, 2022 by Mr. Babu Rangarajan, Clinical Psychologist, TEDx Speaker and International Trainer on “Cognitive Empowerment Training Strategies to Empower Our Mind to Achieve Excellence”. Our faculty members found the session to be helpful and learned how to build our minds to look for the positive in every circumstance.

Mr. Babu Rangarajan, Clinical psychologist and Head, Centre for Human Excellence, KPRIET interacting with our professors

Guest Lecture

TECHNICAL TALKS

Guest Lecture for Faculties (20th July, 2022)

Guest Lecture for Students
20 July, 2022

Department of Chemical Engineering and Centre for Human Excellence jointly organized a guest

lecture on July 20, 2022 by Mr. Babu Rangarajan, Clinical Psychologist, TEDx Speaker and International Trainer on “Technical Skills + Mind Skills = Success” jointly organized by the Department of Chemical Engineering and Centre for Human Excellence. The programme sparked interest and enthusiasm in our students.

TECHNICAL TALKS

Guest Lecture

Guest Lecture for Students (20th July, 2022)

Mrs. Roja Ramani, Clinical psychologist and Associate Head, Centre for Human Excellence, KPRIET interacting with our students. A section of students in the Guest lecture organized by the department

A section of students and faculty listening to Mrs. Roja Ramani, Guest lecture organized by the department of chemical engineering on the title, “Technical Skills + Mind Skills = Success”

Students in the Guest lecture organized by the department on, “Technical Skills + Mind Skills = Success. The students listening to the talk delivered by Mrs. Roja Ramani, Clinical psychologist and Associate Head, Centre for Human Excellence, KPRIET, Coimbatore .

Guest Lecture

TECHNICAL TALKS

Guest Lecture (21st July, 2023)

Department of Chemical Engineering and Indian Institute of Chemical Engineers (IIChE) student chapter at KPR Institute of Engineering and Technology, Coimbatore has jointly organized a guest lecture on “Chemical Metallurgy in Mining and Mineral Processing” on 21st July, 2022 between 11.00 AM - 12.30 PM in Thanam hall. Mr. Mani Selva, Operations Manager – Production, Tronox Mining Limited, Australia was the speaker of the invited talk. There were around 100+ participants including faculty members and students. The session was very interesting and interactive. The first half of the session was focused on mineral processing operations in the mining industry. The mechanical unit operations such as grinding, separation, and leaching were discussed in detail with video demonstrations. The second half of the session was on life skills and personality development. The Head of the department honoured the guest with a corporate gift. Ms. Varsha of final year has proposed a vote of thanks.

Guest Lecture

TECHNICAL TALKS

Guest Lecture (11th October, 2022)

Department of ChemE organized a Guest Lecture on "International Internship Opportunities for Chemical Engineering Students" presented by Dr. M. Laxmi Deepak Bhatlu, Assistant Professor (Sl. Gr)/Chemical on October 11, 2022. Our students benefited from the valuable information shared and gained insight into the various internships available abroad. This was an invaluable learning experience, and we thank Dr. Laxmi Deepak Bhatlu for delivering such an informative session. We wish all our students the best of luck in their international internship programs.

Guest Lecture (11th January, 2023)

The Department of Chemical Engineering, KPR Institute of Engineering and Technology was fortunate to host a guest lecture on "Hidden Health Profile of Millets" given by eminent speaker Dr. Saraswathy Eswaran, Secretary, Ramasamy Chinnammal Trust, Vadavalli, Coimbatore. The lecture took place on the 11th January, 2023. Dr. Sarawathy Eswaran, is an expert on millets, having over two decades of experience in the field. During her guest lecture, she educated and enlightened the audience on the nutritional and health benefits of consuming millets. She provided information on the hidden health profile of millets and discussed how they can help in preventing lifestyle diseases such as cardiovascular diseases, diabetes and some types of cancers. She highlighted how the consumption of millets can lower the risk of these lifestyle diseases and enable us to lead a healthier lifestyle. Dr. Overall, it was an enriching learning experience for the students and faculty members of the Department of Chemical Engineering. Not only did the guest lecture provide valuable knowledge about millets and its health benefits but it also encouraged us to make healthier choices and adopt a better lifestyle.

TECHNICAL TALKS

Guest Lecture

Guest Lecture (11th January, 2023)

The images capture the Guest Lectures hosted by the Department of Chemical Engineering. In the first snapshot, Dr. S. Balasubramanian, the Professor & Head, along with Dr. Saraswathiy Eswaran, is seen seated on the stage. Following this, Dr. Saraswathy can be observed addressing the audience from the podium, delivering her lecture to both students and faculty members. Subsequent pictures feature Prof. S. Balasubramanian taking the podium to give the introductory speech, while students of Chemical Engineering can be seen attentively participating in the Guest lecture on the Hidden Health Profile of Millets.

TECHNICAL TALKS

Guest Lecture

Guest Lecture (27th April, 2023)

The Department of Chemical Engineering organized a guest lecture on “Coping STRESS and how to WIN an Interview” given by Mr. G. Sridhar, HR Manager, KG Denim Ltd, Mettupalayam on 27th April, 2023. The guest lecture provided valuable insights and practical tips on effectively managing stress and excelling in interviews. Mr. Sridhar shared his expertise and experience in the field of HR, providing attendees with guidance on coping mechanisms to reduce stress levels and strategies to ace job interviews. His in-depth knowledge and engaging delivery captivated the audience, making the session both informative and enjoyable. The event served as an excellent platform for students and faculty members to gain valuable insights into the challenges of stress management and the techniques required to succeed in interviews.

On the stage, Mr. G. Sridhar, HR Manager at KG Denim Ltd, is presenting the guest lecture. On the right side, Dr. S. Balasubramanian, the Professor and Head, is extending recognition to Mr. G. Sridhar by offering a small token of appreciation.

TECHNICAL TALKS

INDUSTRY EXPERT TALKS

Invited Industry Talk (2nd November, 2022)

Department of Chemical Engineering in association with the Industry Institute Partnership Cell, KPRIET hosted an invited Industry Talk on "Skill Sets and Career Opportunities for Chemical Engineers" by Dr. M. Ramasamy, MachDatum Pvt. Ltd and Professor & Strategic Advisor/KPRIET on November 02, 2022. Our students were inspired by the informative session and learned a lot about the various career opportunities available in the field of Chemical Engineering. It was a great opportunity to gain first-hand insights from an industry expert, and our students took full advantage of it. We thank Dr. M. Ramasamy for taking the time to provide our students with a valuable learning experience.

The presentation titled "Skill Sets and Career Opportunities for Chemical Engineers," given by Dr. M. Ramasamy from MachDatum Pvt. Ltd. and also a Professor and strategic Advisor at KPRIET, was delivered to our Chemical Engineering students. On the right side, Prof. M. Ramasamy can be observed delivering his lecture to the students, while on the left side, the students are engaged attentively, listening to Dr. M. Ramasamy's insights.

TECHNICAL TALKS

INDUSTRY EXPERT TALKS

Industry Talk (4th November, 2022)

Department of Chemical Engineering in association with the Industry Institute Partnership Cell, KPRIET organized an interactive session with Mr. B. Karthick, Assistant Manager, Chemical Recovery Plant, Seshasayee Paper and Boards Limited, Erode. It was a great pleasure to have an Industry expert for the guest lecture. Our students were inspired by his insights and the interactive session left them with valuable knowledge and a deeper understanding of the field. The students found it to be a worthwhile activity that provided them with a valuable learning experience. The expert was open to comments and questions, which made the lecture even more engaging. We thank him for taking the time to deliver such an informative session.

TECHNICAL TALKS

ALUMNI INTERACTION

Alumni Talk Series (29th August, 2022)

Department of Chemical Engineering organized a Webinar as a part of Alumni Talk Series on "Biomass from Waste" by Dr. A. Balasubramanian. It was an informative and exciting session for the students and faculty members of the department. The webinar provided students with invaluable insights and takeaways, empowering them to explore new avenues in the field of biomass from waste. Participants gained a deeper understanding of sustainable energy solutions, the role of chemical engineering in waste conversion, and the immense potential for creating a greener and more environmentally friendly future.

ALUMNI INTERACTION

TECHNICAL TALKS

Alumni Interaction with Students (8th October, 2022)

The Department of Chemical Engineering had the pleasure of having our alumni Mr. A. Amalkumar and Mr. K. Thamaraikannan, Manager Trainees, Gypmart India Pvt. Ltd, Kolkata, return to our institution and share their industry experiences with our students. The session was extremely interactive and provided our students with a better understanding of the expectations of industries from young chemical engineers.

The alumnus also offered valuable advice on how our students should prepare themselves for entering the professional world. We are thankful to our alumni for taking the time to come and share their experiences with us. It was a fantastic learning opportunity for all the students involved.

TECHNICAL TALKS

ALUMNI INTERACTION

Alumni Talk (2nd March 2023

The Department of Chemical Engineering, KPR Institute of Engineering and Technology organized an Alumni talk given by Mr. K. Sivabalasudhan, Graduate Process Engineer Trainee, Kavin Engineering Services Private Limited, Coimbatore. His words of wisdom regarding successful tips to secure core placements offered invaluable guidance to current engineering graduates. From steps to build a noteworthy resume to best practices for acing interviews, Mr. Sivabalasudhan made sure to provide the budding engineers with key insights on the job hunt that would increase their chances of success. It was a truly inspiring talk and a must-attend for all aspiring engineer.

Dr. G. Surendran and Dr. E. Nakkeeran, Associate Professors of Chemical Engineering Department felicitating our alumni Mr. K. Sivabalasudhan

"Only when I began studying Chemical Engineering at Oregon Agricultural College did I realize that I myself discover something new about the nature of the world"

- *Linus Pauling*

Chemical Engineer and a Nobel Laurate

DISTINGUISHED LECTURE SERIES

Distinguished Lecture Series I (21st February, 2023)

Our faculty members expressing their gratitude to Dr. M. Ramasamy, Professor & Strategic Advisor, KPRIET

Department of Chemical Engineering conducted a Distinguished Lecture Series I, where in Dr. M. Ramasamy, Professor, Department of Chemical Engineering presented his lecture on the topic “Data Science in ChemE”. The lecture focused on using data science in Chemical Engineering and was a great learning for everyone who attended. Students and Faculty members gained valuable insight into the usefulness of data science in the field of chemical engineering and how it can be applied to increase efficiency, improve safety, and help them gain a better understanding of the properties of chemical components. At the end of the event, students and teachers had the opportunity to express their gratitude for the knowledge and experience shared.

TECHNICAL TALKS

DISTINGUISHED LECTURE SERIES

Distinguished Lecture Series II (21st March, 2023)

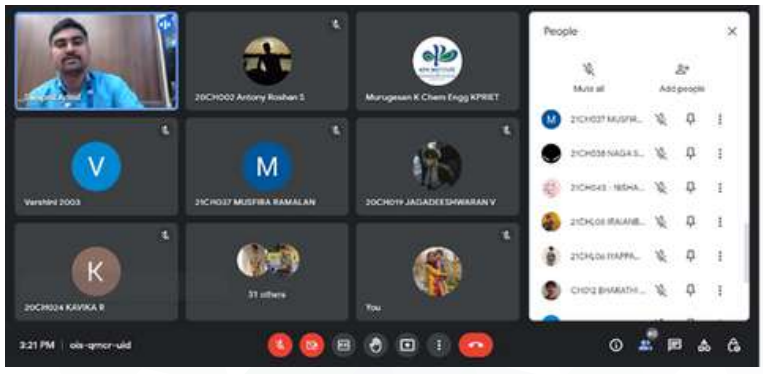
The Department of Chemical Engineering organized the Distinguished Lecture Series on "Exploring Dynamics of Fluids: Computational Tools and Techniques for Chemical Engineers" by Dr S Balasubramanian, Professor and Head of the Department of Chemical Engineering at KPR Institute of Engineering and Technology, on March 21st, 2023. Dr. S. Balasubramanian discussed the application of computational tools and techniques in exploring the dynamics of fluids used in various chemical engineering applications. This lecture provided an excellent opportunity for our students who are interested in gaining more knowledge about the practical implementation of computational tools and techniques in fluid dynamics.

WEBINAR

TECHNICAL TALKS

Webinar (10th August, 2023)

The Department of Chemical Engineering organized a webinar on "Reactive Distillation and Its Industrial Applications" by Dr. Swapnil Adsul on August 10, 2022. The guest lecture aimed to assist students in understanding their role as chemical engineers in the field of reactive distillation and its applications in various industries.



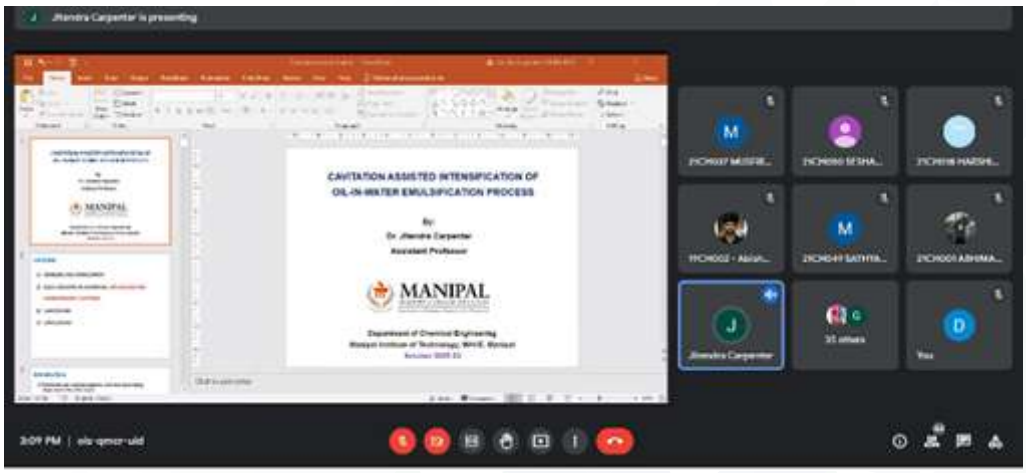
Snapshot from the online webinar captures students engrossed in Dr. Swapnil's virtual presentation on reactive distillation.

TECHNICAL TALKS

WEBINAR

Webinar (17th August, 2022)

The Department of Chemical Engineering organized a webinar on "Cavitation Assisted Intensification of Oil in Water Emulsification Process" by Dr. Jitendra Carpenter on August 17, 2022. The webinar aimed to provide students with a comprehensive understanding of the oil-in-water emulsification process, particularly focusing on the role of cavitation in intensifying the process.



TECHNICAL TALKS

WEBINAR

Webinar (12th January, 2023)

The Department of Chemical Engineering organized a webinar on "Exploring International Opportunities for Chemical Engineering Undergraduate Students" presented by Smt. S. R. Madhumithaa, the Managing Director of Sharjah Research, Technology & Innovation Park (SRTIP) University in Sharjah, UAE. The event took place on January 12th, 2023, and it was a resounding success. This webinar provided valuable insights to our chemical engineering students on how to leverage international opportunities, including internships and research placements.

Smrt. S. R. Madhumithaa shared her extensive experience and knowledge on the latest market trends in the field, as well as strategies for maximizing job opportunities and utilizing available resources for chemical engineering students worldwide. We are confident that our students greatly benefited from this webinar, gaining valuable insights into various career paths available to them.

As part of our commitment to preparing our students for a successful future, we will continue striving to organize similar events in the near future. We extend our heartfelt gratitude to S. R. Madhumithaa for her kind guidance, and we hope that our students will continue to reap the benefits of this enriching event for years to come.

TECHNICAL TALKS

WEBINAR

Webinar (12th January, 2023)

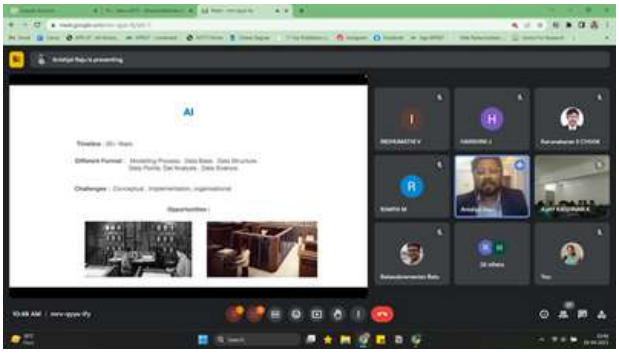
The Department of Chemical Engineering, in collaboration with the IIChE (Indian Institute of Chemical Engineers) Student Chapter, organized an Industry Lecture Series on the topic of "Understanding the Fertilizer &Electrolyzer Industry. " The lecture series aimed to provide insights into these industries, which are crucial for the development of the Indian economy. They play a vital role in the agriculture and energy sectors, contributing to sustainable development. The lecture series featured industry experts who shared their knowledge and experience with the students. The speakers covered various topics, including the manufacturing processes of fertilizers and electrolyzers, their applications, and the challenges faced by the industry. The students actively participated in the interactive sessions, posing insightful questions that were answered by the speakers. This platform provided an excellent opportunity for students to engage with industry professionals and gain valuable insights into these chemical industries.

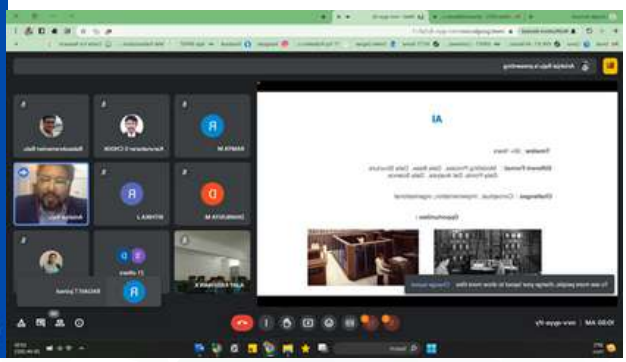
WEBINAR

TECHNICAL TALKS

Webinar (29th April, 2023)

The Department of Chemical Engineering organized a webinar on "AI Impact on Chemical Engineering" presented by Mr. Anishai Raju, representing Starapp Media Pvt Ltd in Singapore and Yardstick Entertainment Pvt Ltd in India, on April 29th, 2023. The webinar explored the captivating subject of how Artificial Intelligence (AI) is influencing the field of Chemical Engineering. Leveraging his extensive knowledge and expertise in the industry, Mr. Anishai Raju provided valuable insights into the diverse applications of AI within this field. This webinar offered our students a unique opportunity to delve deeper into the potential impact of AI on chemical processes, research endeavors, and industrial practices. By participating in this event, students gained a comprehensive understanding of the transformative role that AI can play in the field of Chemical Engineering





Snapshot from the online webinar captures students engrossed in Dr. Swapnil's virtual presentation on reactive distillation.

WORKSHOPS AND ORIENTATIONS

MAAC Orientation Programme (2 August, 2023)

The Department of Chemical Engineering, in association with Maya Academy of Advanced Cinematics (MAAC), organized an orientation program on "Development of Animation as a Tool for Learning Chemical Engineering Principles." The program was led by Mr. K S Dandapani, Centre Head of MAAC at KPRIET, and took place on August 02, 2022.

AAC offers meticulously designed courses that provide students with in-depth knowledge of the animation industry. With a focus on practical training, MAAC offers a real-life learning environment supported by exceptional faculty, world-class infrastructure, and the latest technical tools.

The orientation program aimed to familiarize students with the potential of animation as a tool for understanding and learning chemical engineering principles. Through this program, students were able to explore the innovative ways in which animation can enhance their understanding of complex concepts in the field of chemical engineering.

WORKSHOPS AND ORIENTATIONS

TECHNICAL TALKS

Gate Awareness Program (11th August, 2022)

The Department of Chemical Engineering, in collaboration with the Career Development Cell, organized a GATE Awareness Program led by Mr. V. Sathyamoorthy and Mr. R. Vivekanandan from Unacademy on August 11, 2022. The program aimed to provide students with valuable insights on how to clear the GATE exam with a good cut-off score, as well as guidance on the essential topics to focus on. This program proved highly beneficial to the students, equipping them with a clear understanding of the strategies and knowledge required to excel in the GATE exam. It helped them gain insight into the important topics that demand their attention during exam preparation.

By organizing such programs, the Department of Chemical Engineering and the Career Development Cell are dedicated to supporting students in their academic pursuits and preparing them for successful careers.

WORKSHOPS AND ORIENTATIONS

TECHNICAL TALKS

Workshop on Basics of Aspen (25th March, 2023)

The Department of Chemical Engineering successfully organized a one-day workshop on the Basics of Aspen Plus for polytechnic students on March 25th, 2023. The workshop was conducted by Dr. R. Bharathi Ganesan, Assistant Professor (Sl.Gr) from the Department of Chemical Engineering. During the workshop, students had the opportunity to deepen their understanding of chemical engineering and gain valuable insights into the ASPEN PLUS software. Attendees received useful tips and advice that will assist them in their future studies and applications.

The workshop was a resounding success, thanks to the dedicated efforts of the Department of Chemical Engineering and Dr. R. Bharathi Ganesan. We are pleased to have provided such a valuable resource to the students, and we hope that all participants have acquired the knowledge and experience necessary to enhance their understanding of chemical engineering and ASPEN PLUS software. The Department of Chemical Engineering takes pride in supporting students and looks forward to continuing its commitment to their success in the future.

To the right, Polytechnique students are enthusiastically participating in a workshop about the fundamentals of Aspen Plus, conducted by Dr. R. Bharathi Ganesan.

WORKSHOPS AND ORIENTATIONS

TECHNICAL TALKS

Orientation on Latex (29th March, 2023)

The Department of Chemical Engineering organized an orientation program on "LATEX: Demystifying Project Report and Presentation for Undergraduate Students." The program was conducted by Dr. S. Balasubramanian, Professor and Head of the Department of Chemical Engineering, and Dr. M. Laxmi Deepak Bhatlu, Assistant Professor (Sl.Gr) of the Department of Chemical Engineering, on March 29th, 2023. The objective of the program was to assist undergraduate students in improving the quality and efficiency of their project reports and presentations. Participants had the opportunity to gain a better understanding of how to utilize LATEX software to enhance their presentations and reports, making them more polished and professional. The program proved to be highly beneficial for the participants, equipping them with valuable skills to excel in their project-related tasks. By leveraging LATEX, students can optimize their written and visual content, resulting in more effective communication of their research and findings.

Faculty Achievements

FACULTY PUBLICATIONS

Research Publications

S. No.	Faculty Name	Title of the Paper	Journal Name
1	Dr. S. Balasubramanian	Modelling and multi-objective optimization of parameters in fabrication and performance analysis of polyvinylidene fluoride spiral-wound membrane modules	Polymer Bulletin
2	Lt. Dr. A. K. Priya	Metal-organic framework-enabled pesticides are an emerging tool for sustainable cleaner production and environmental hazard reduction	Journal of Cleaner Production
3	Lt. Dr. A. K. Priya	Biosorption of heavy metals by microorganisms: Evaluation of different underlying mechanisms	Chemosphere
4	Lt. Dr. A. K. Priya	The conversion of biomass to fuels via cutting-edge technologies: Explorations from natural utilization systems	Fuel
5	Lt. Dr. A. K. Priya	Algal degradation of microplastic from the environment: Mechanism, challenges, and future prospects	Algal Research
6	Dr. S. Karunakaran	Synthesizes of Nanocatalyst for the Production of Biodiesel from Tannery Sludge; Characterization and Optimization	Theoretical Foundations of Chemical Engineering
7	Dr. M. Ramasamy	Data-Based Modeling of a Nonexplicit Two-Time Scale Process via Multiple Time-Scale Recurrent Neural Networks	Industrial and Engineering Chemistry Research
8	Dr. G. Surendran	Removal of Hexavalent Chromium using Emulsion Liquid Membrane with jet mixer-a continuous approach	Chemical Engineering & Technology
9	Dr. M. Laxmi Deepak Bhatlu	Preparation of Breadfruit Leaf Biochar for the Application of Congo Red Dye Removal from Aqueous Solution and Optimization of Factors by RSM-BBD	Adsorption Science and Technology
10	Dr. S. Karunakaran	Investigation on the Mechanical Properties of Powder Metallurgy - Manufactured AA7178/ZrSiO4 Nanocomposites	Advances in Materials Science and Engineering

Faculty Achievements

FACULTY PUBLICATIONS

S. No.	Faculty Name	Title of the Paper	Journal Name
11	Dr. M. Ramasamy	Control of the Multi-Timescale Process Using Multiple Timescale Recurrent Neural Network-Based Model Predictive Control	Industrial and Engineering Chemistry Research
12	Dr. M. Ramasamy	Modeling Strategies for Crude Oil-Induced Fouling in Heat Exchangers: A Review	Processes
13	Lt. Dr. A. K. Priya	Bio-based agricultural products: a sustainable alternative to agrochemicals for promoting a circular economy	RSC Sustainability
14	Lt. Dr. A. K. Priya	Clean-Up of Heavy Metals from Contaminated Soil by Phytoremediation: A Multidisciplinary and Eco-Friendly Approach	Toxins
15	Lt. Dr. A. K. Priya	Emerging waste-to-wealth applications of fly ash for environmental remediation: A review	Environmental Research

Book Chapter

S. No.	Faculty Name	Title of the Chapter	Publisher Name
1	Dr. S. Balasubramanian	Natural materials as adsorbents for water purification	Elsevier
2	Lt. Dr. A. K. Priya	The Role of Microbes in the Degradation of Plastics and Directions Toward Greener Bioplastics	CRC Press
3	L. Dharani	Graphene based Electrode Material for Microbial Fuel Cell	Springer
4	L. Dharani	Shell and Tube Heat Exchangers in the Food Industry	Elsevier

Faculty Achievements

FACULTY PUBLICATIONS

Conference Publications

S.No	Faculty Name	Title of the Paper	Conference Name
1	Dr. S. Balasubramanian	Computational Fluid Dynamics Studies on the Flow of Fluids through Microchannel with Intentional Obstacles	AIP Conference Proceedings
2	Dr. S. Balasubramanian	Thermal Processing of Liquid Food in a Rectangular Prism-Type Container	AIP Conference Proceedings
3	Dr. S. Balasubramanian	Lipid Extraction from Freshwater and Marine Microalgae Using Confined Impinging Jet Mixer	AIP Conference Proceedings
4	Dr. S. Balasubramanian	Impact on the effect of acetic acid in its aqueous forms on environments and its separation methods	AIP Conference Proceedings

Patent Publications

S. No	Faculty Name	Title of the Patent	Status
1	Dr. S. Karunakaran & Mr. N. Arunkumar	Farmer's Techno Binder	Published

Faculty Achievements

KNOWLEDGE DISSEMINATION

All India Seminar Resource Person

Dr S. Balasubramanian

The Institution of Engineers, Coimbatore Local Chapter, in collaboration with the Department of Civil Engineering at KPRIET, organized an All India Seminar on "Advances in Hazardous Waste Management Technology" on September 29th to 30th, 2022. As part of the seminar, Dr. S. Balasubramanian, Professor and Head of the Department of Chemical Engineering, was invited to be a resource person.

Dr. Balasubramanian's talk on "Solid Waste Management" received high appreciation from the audience, as they gained valuable insights into the significance of proper waste management. His discussion revolved around methods to reduce, reuse, and recycle waste, emphasizing their potential for fostering a healthier and more sustainable environment. His contribution not only added value to the event but also served as a catalyst for raising awareness about the importance of responsible waste management practices.

Loads of chemicals and hazardous wastes have been introduced into the atmosphere that didn't even exist in 1948. The environmental condition of the planet is far worse than it was 42 years ago.

~ *Gaylord Nelson, American Politician*

Faculty Achievements

KNOWLEDGE DISSEMINATION

FDP Resource Person

Dr. R. Umapriya, Assistant Professor (Sl. Gr) in the Department of Chemical Engineering at KPR Institute of Engineering and Technology, was invited to serve as a resource person for a Faculty Development Program organized by JCT College of Engineering and Technology in Coimbatore.

During her lecture, she shared her expertise on "Applications of Membrane in Wastewater Treatment." Dr. R. Umapriya highlighted the significance of membrane technology in water treatment and provided practical examples of how it can effectively reduce the discharge of wastewater into the environment. She also discussed methods for recycling and reusing treated water as a means of reducing overall water consumption. The faculty members found Dr. R. Umapriya's lecture to be highly informative and enlightening. Her presentation offered valuable insights into the field of membrane technology and its role in addressing the challenges of wastewater treatment.

Faculty Achievements

KNOWLEDGE DISSEMINATION

Webinar Resource Person

Lt. Dr. A. K. Priya, Professor
Department of ChemE

Lt. Dr. A. K. Priya, Professor and Associate Head of the Department of Chemical Engineering at KPRIRT, delivered an insightful lecture on "Zero Waste Management" as part of the National Pollution Prevention Day 2022 at Yashoda Technical Campus Faculty of Engineering in Satara. During her lecture, Dr. A. K. Priya delved into the challenges associated with waste management and presented strategies to reduce waste generation, promote reuse and recycling of products, and repurpose materials - all crucial elements of zero waste management.

She also emphasized the importance of opting for carbon-neutral solutions whenever possible to minimize waste production. We express our utmost appreciation to Lt. Dr. A. K. Priya for her inspiring and informative lecture, which contributed significantly to raising awareness about sustainable waste management practices. Her insights and recommendations provide valuable guidance in achieving a more sustainable and eco-friendly future.

Faculty Achievements

KNOWLEDGE DISSEMINATION

Resource Person for Faculty Development Programme

Dr. Nitu Kumari
Assistant Professors
Department of ChemE

Dr. Nitu Kumari, Assistant Professor (Sr. Gr) in the Department of Chemical Engineering at KPRIET, served as a resource person for the Faculty Development Programme on "Process Instrumentation Dynamics and Control. " The program was organized by the Department of Petrochemical Engineering at RVS College of Engineering and Technology, Coimbatore. During the Faculty Development Programme, Dr. Kumari delivered insightful lectures, shared her extensive knowledge, and engaged in interactive discussions on various topics related to "Process Instrumentation Dynamics and Control." Participants had the valuable opportunity to learn from Dr. Kumari's expertise and gain insights into the latest advancements in the field.

Dr. Kumari's teaching style was engaging and her ability to simplify complex concepts was highly appreciated by the participants.Her contributions to the program enriched the learning experience for all involved, and her efforts were commendable. We extend our gratitude to Dr. Nitu Kumari for her valuable contributions and dedication to the Faculty Development Programme, which undoubtedly enhanced the understanding of participants in the field of process instrumentation dynamics and control.

Chief Guest for Technical Symposium

Dr. S. Karunakaran, Associate Professor in the Department of Chemical Engineering at KPRIET, was invited as the Chief Guest for the National Level Technical Symposium conducted by Hindustan Institute of Engineering and Technology, Coimbatore, on November 5th, 2022. During the event, Dr. S. Karunakaran delivered a thought-provoking speech on the significance of technology in the contemporary world and its potential to shape future advancements. He also highlighted the challenges that society faces today and emphasized how innovative technological solutions can contribute to their resolution. Dr. Karunakaran's engaging speech provided attendees with valuable insights into the transformative power of technology in our lives. His presence and contribution to the event were greatly appreciated. We express our sincere gratitude to Dr. S. Karunakaran for gracing us with his presence and sharing his expertise and knowledge, which undoubtedly left a lasting impact on all those in attendance.

Dr. S. Karunakaran honouring the awardees in the National level Technical symposium held at Hindustan College of Engineering

Faculty Achievements

KNOWLEDGE DISSEMINATION

Visiting Faculty at ICAR-IISWC

Lt. Dr. A. K. Priya, Professor
Department of ChemE at ICAR
Dehradun

Lt. Dr. A. K. Priya, Professor & Associate Head of the Department of Chemical Engineering at KPRIET, has joined as a visiting professor with the team led by Dr. M. Muruganandam, Principal Scientist and Head of the Research Prioritization, Monitoring, & Evaluation, and Knowledge Management Unit at ICAR-Indian Institute of Soil and Water Conservation (ICAR-IISWC). Dr. Priya has been sponsored for a four-month period from March to June 2023 under the Young Scientist Fellowship Scheme (YSFC) of the Tamil Nadu State Council for Science and Technology, Chennai. We extend our best wishes to her for success in all her future endeavors. This opportunity for Dr. Priya to collaborate with ICAR-IISWC and contribute as a visiting professor is a testament to her expertise and recognition of her contributions in the field of chemical engineering. We are confident that her presence and valuable insights will enrich the research and knowledge sharing at ICAR-IISWC during her tenure.

The Himachal Times

Lt Dr Priya joins ICAR-IISWC as Visiting Professor

Dehradun, March 22 (HTNS): Lt Dr AK Priya, Professor from KPR Institute of Engineering and Technology (KPRIET) Coimbatore, Tamil Nadu joined as a Visiting Professor with the team of Dr M Muruganandam, Principal Scientist and Head, Research Prioritization, Monitoring, & Evaluation and Knowledge Management Unit, ICAR-Indian Institute of Soil and Water Conservation (ICAR-IISWC), Dehradun.

Dr Priya has been sponsored for four months during March-June 2023 under the Young Scientist Fellowship Scheme (YSFS) of the Tamil Nadu State Council for Science and Technology, Chennai, Tamil Nadu.

Dr M Madhu, Director, IISWC-IISWC informed during an interaction that the association will be mutually beneficial for the Institute and her organization as her professional competence and interests match the interests of the Institute.

Dr Priya as an environmental engineer brings rich experience on diverse fields including IoT and mobile-app based design & development of agribot, automated dispensers linked with hybrid power-solar & electric power, nano-size adsorbents to clean up wastewater, biomass production & management, edible plastics synthesis from algae & biomass for production of environment friendly packing materials, potable water filters to reduce or remove TDS and microbial pathogens and such others. She has about 20 patents granted or published besides many competitive grants and awards to her credit.

The present professional association with Dr Muruganandam and his team will bring an augmented benefit and advance the professional competence.

Dr Muruganandam revealed that she will have an opportunity to learn about concepts and approaches of resource conservation, agriculture production, and environment management through various professional engagements including training on field and methodological tools and techniques on SWC & watershed management, water quality, rivers & aquatic ecosystems management, bioremediation and emerging technologies for production and management, edible plastics synthesis from algae and biomass for production of environment friendly packing materials, potable water filters to reduce or remove TDS and microbial pathogens and such others.

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Professional interaction with scientists and technical officers of the Institute and field exposure to various models and systems developed by the Institute are scheduled during her stay. The opportunities available with various local Institutions and organizations will also be explored and programmed as a part of the association.

The Premier English Daily of Uttarakhand

Garhwal Post

For Tomorrow's People!

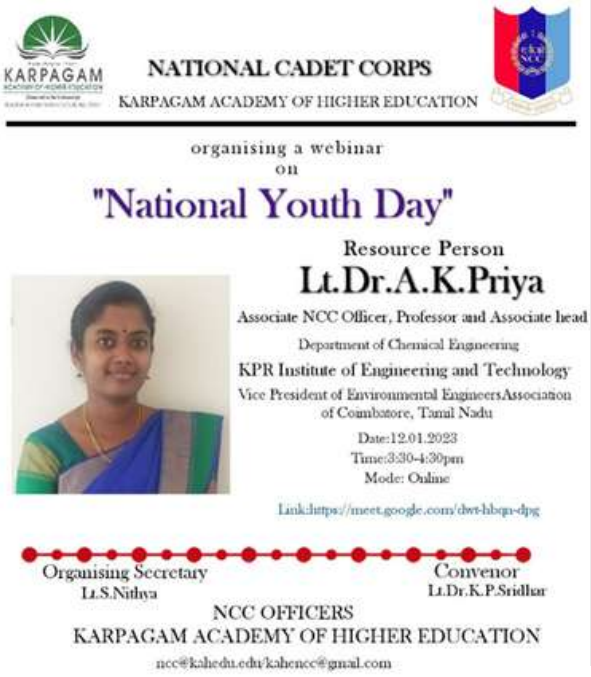
www.garhwalpost.in | Vol. XVII No. 261 DEHRADUN | Thursday 23 March, 2023 | Pages 16 | Price ₹ 2

Lt Dr Priya joins ICAR-IISWC as Visiting Professor

Faculty Achievements

KNOWLEDGE DISSEMINATION

Webinar Resource Person



Lt. Dr. A. K. Priya, Professor of the Chemical Engineering Department, delivered an online webinar on "National Youth Day." The webinar was organized by the National Cadet Corps of Karpagam Academy of Higher Education. During her session, Lt. Dr. A. K. Priya emphasized the significance of harnessing the potential of youth for the development and growth of the country. She highlighted the pivotal role of science, technology, and engineering in addressing societal challenges and encouraged participants to fearlessly pursue their passions. Dr. Priya's invaluable insights and practical examples made a lasting impact on the attendees, inspiring a sense of enthusiasm and determination among the young audience. Her webinar effectively ignited a spark of motivation, encouraging young individuals to contribute actively to the betterment of society. We commend Lt. Dr. A. K. Priya for her informative and engaging webinar, which successfully emphasized the importance of youth in shaping the future of our nation. Her efforts in motivating and inspiring the young generation are commendable.

Technology Transfer to Industry

TECHTRANSFER

THE HINDU 11.11.22

A Business Initiative

Technology transfer by KPRIET

Innovation is critical in many businesses today, directly supported by the Research and Development of the company but indirectly aided by academia. On the event held at the KPR Institute of Engineering and Technology on 4th Nov 2022. Lt. Dr. A.K. Priya and her team developed a mobile vending machine that is customizable and remote monitorable. This technical know-how is transferred to M/S. Mahalakshmi agencies, Arasur, Coimbatore. It has the potential to fix in various constructional sites, and it is modified as per the construction industry. In addition to that, all the information is transferred to the remote stakeholder. After the perusal by the industrial expert said that academia is where students can be molded to develop this kind of product which directly contributes to society. Dr. M. Akila, the principal of KPRIET, appreciated the project guide Lt. Dr. A. K. Priya, and the students involved in this product development. Lt. Dr. A. K. Priya whole heartily thanked the institute for their support and for students involved in this product development.

Faculty Achievements

FACULTY DEVELOPMENT PROGRAMME

S. No	Name of the Faculty	Title of the programme	Organized by
1	Dr. S. Balasubramanian	Simulation as a Pedagogical Aid in Chemical Engineering	Department of Chemical Engineering, NIT Warangal
2	Dr. G. Surendran	Simulation as a Pedagogical Aid in Chemical Engineering	Department of Chemical Engineering, NIT Warangal
3	Dr. R. Bharathi Ganesan	Simulation as a Pedagogical Aid in Chemical Engineering	Department of Chemical Engineering, NIT Warangal
4	Mr. K. Murugesan	Simulation as a Pedagogical Aid in Chemical Engineering	Department of Chemical Engineering, NIT Warangal
5	Ms. L. Dharani	Simulation as a Pedagogical Aid in Chemical Engineering	Department of Chemical Engineering, NIT Warangal
6	Dr. Nitu Kumari	Current Trends in Nanomaterials and its Applications	Department of Chemical Engineering, SRM Institute of Science and Technology, Chennai
7	Dr. R. Uma Priya	Current Trends in Nanomaterials and its Applications	Department of Chemical Engineering, SRM Institute of Science and Technology, Chennai
8	Ms. L. Dharani	Current Trends in Nanomaterials and its Applications	Department of Chemical Engineering, SRM Institute of Science and Technology, Chennai
9	Dr. R. Uma Priya	Process Instrumentation Dynamics and Control	Department of Petrochemical Engineering, RVS College of Engineering and Technology
10	Ms. L. Dharani	Process Instrumentation Dynamics and Control	Department of Petrochemical Engineering, RVS College of Engineering and Technology

Faculty Achievements

FACULTY DEVELOPMENT PROGRAMME

S. No	Faculty Name	Course Name	Completion Level
1	Dr. Lineesh Punathil	NPTEL – Introduction to CFD	Elite Gold + 1% Topper
2	Dr. S. Balasubramanian	NPTEL – Hydrogen Energy: Production, Storage, Transportation and Safety	Elite Silver
3	Ms. L. Dharani	NPTEL - Bioreactors	Elite Silver
4	Dr. E. Nakkeeran	NPTEL – Basic Environmental Engineering and Pollution Abatement	Elite
5	Dr. Lt. A. K. Priya	Nasscom – Acquiring Data	Bronze
6	Dr. R. Umapriya	Nasscom – Acquiring Data	Gold
7	Mr. J. Rohan	Nasscom – Acquiring Data	Gold
8	Ms. L. Dharani	Nasscom – Acquiring Data	Gold
9	Dr. M. Laxmi Deepak Bhatlu	Nasscom – Acquiring Data	Silver
10	Dr. S. Karukaran	Nasscom – Acquiring Data	Silver
11	Mr. N. Arunkumar	Nasscom – Acquiring Data	Silver
12	Dr. Lineesh Punathil	Nasscom – Acquiring Data	Bronze
13	Dr. Nitukumari	NITTT – Module 1	Successfully Completed
14	Dr. Lineesh Punathil	NITTT – Module 1	Successfully Completed
15	Ms. L. Dharani	NITTT – Module 1	Successfully Completed
16	Dr. R. Bharathi Ganesan	NITTT – Module 4	Successfully Completed
	Dr. R. Bharathi Ganesan	NITTT – Module 7	Successfully Completed

AWARDS

Faculty Achievements

Best Faculty Award

Lt. Dr. A. K. Priya, Professor, Department of
Chemical Engineering receiving the best faculty award from Madam Principal

Best Mentor Award

Mr. K. Murugesan
Assistant Professor (Sr.Gr),
Department of Chemical Engineering receiving the best mentor award from Madam Principal

Faculty Achievements

AWARDS

Best Staff Award

Ms. M. Kousalya, Junior Office Assistant, Department of Chemical Engineering receiving the best staff award from Madam Principal

Annual Day Awards

NCC

Faculty Achievements

Republic Day

The Department of Chemical Engineering takes great pride in congratulating Lt. Dr. A. K. Priya, Associate Head and Professor/CH, for her role as Contingent Commander representing Marina RDC in the Tamil Nadu, Puducherry, and Andaman directorate. Additionally, she received an Appreciation Certificate from Commodore Atul Kumar Rastogi, Deputy Director General of the National Cadet Corps (DDGNCC), for her participation in the Chief Minister's Rally at Marina RDC 2023.

Lt. Dr. A. K Priya receiving Appreciation Certificate from Commodore Atul Kumar Rastogi, Deputy Director General of the National Cadet Corps (DDGNCC)

This accomplishment highlights Lt. Dr. A. K. Priya's leadership and dedication to the National Cadet Corps, as well as her commitment to representing Marina RDC with excellence. The Department of Chemical Engineering extends its heartfelt congratulations to her for these well-deserved recognitions.

Faculty Achievements

NCC

Award of Appreciation

Lt. Dr. A. K. Priya, Professor
Department of Chemical Engineering

Celebrating World Intellectual Property Day and Recognizing Achievements

April 26, 2023

In a world driven by innovation and creativity, the significance of intellectual property cannot be overstated. On April 26, 2023, the world celebrated World Intellectual Property Day, recognizing the crucial role that intellectual property rights play in fostering innovation, creativity, and progress across various domains. This year's theme, "World Women and IP: Accelerating Innovation and Creativity," highlighted the exceptional contributions of women in driving advancements in various fields through their inventive and creative endeavors.

Amidst the celebrations of World Intellectual Property Day, we take immense pride in announcing that Lt. Dr. A K Priya was presented with an Award of Appreciation. Her remarkable dedication and contributions in the realm of intellectual property have not only been a source of inspiration but have also significantly enriched our understanding of innovation and its impact on society.

Dr. A K Priya's participation in the 100 Hours Techno Carnival stands as a testament to her commitment to engineering excellence. Her active engagement during the event, which was organized by the IEI Tamil Nadu State Center and 16 local centers, showcased her dedication to fostering sustainable development through technological advancements.

The theme of the carnival, "Sustainable Development of The Nation – The Role of Engineers," perfectly encapsulated the core principles that drive our institution's values. Dr. A K Priya's involvement in this event underscored her belief in the power of engineering to drive positive change, enhance our quality of life, and ensure the long-term well-being of our society.

Student Achievements

PAPER AND POSTER PRESENTATION

S.No	Name of the Students	Year	Name of the Organizing Institute	Prize Won
1	M. Archana A. S. Sushmitha	II B.Tech. Chemical	Department of Petrochemical Engineering, RVS College of Engineering and Technology, Coimbatore	IInd Place
2	M. Chellamirthini S. Surya Prakash	II B.Tech. Chemical	Department of Electrical and Electronics Engineering, Kongu Engineering College, Erode	IInd Place
3	R. Harshitha S. Mouleeswaran	II B.Tech. Chemical	Department of Chemical Engineering, Kongu Engineering College, Erode	Ist Place
4	R. Harshitha S. Mouleeswaran K. T. Vinothane	II B.Tech. Chemical	Department of Chemical Engineering, Erode Sengundhar Engineering College, Erode	Ist Place
5	M. Chellamirthini S. Surya Prakash	II B.Tech. Chemical	Department of Electronics and Communication, Engineering Erode Sengundhar Engineering College, Erode	IIIrd Place
6	M. Archana A. S. Sushmitha R. Chandru R. Arunkumar	II B.Tech. Chemical	Department of Chemical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	IInd Place
7	B. Umamaheswari R. Manikandan	II B.Tech. Chemical	Department of Chemical Engineering, Kongu Engineering College, Erode	Ist Place
8	B. Umamaheswari K. T. Vinothane	II B.Tech. Chemical	Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore	Ist Place
9	J. Varshini	II B.Tech. Chemical	Department of Chemical Engineering, Kongu Engineering College, Erode	IInd Place
10	B. Umamaheswari	II B.Tech. Chemical	Department of Electronics and Communication Engineering, Bannari Amman Institute of Technology, Sathyamangalam	Ist Place
11	S.S.Suriya Prasanna B. Jotheeswaran	I B.Tech. Chemical	Department of Chemical Engineering, JCT College of Engineering and Technology, Coimbatore	Ist Place
12	J. Deepak	III. B. Tech. Chemical	National Conference by Adhiyamaan College of Engineering, Hosur	IIIrd Place
13	J. Derits S. Antony Roshan	III. B. Tech. Chemical	Intercollegiate Technical and Cultural Fest, Kalaignarkarunanidhi Institute of Technology, Coimbatore	IInd Place
14	P. K. Prakashraj A. Thamaraiselvan	III. B. Tech. Chemical	Department of Chemical Engineering, Kongu Engineering College	Ist Place
15	A. S. Sushmitha M. Archana R. Chandru R. Arunkumar	II B. Tech. Chemical	Department of Chemical Engineering, Hindustan Institute of Engineering and Technology, Coimbatore	IInd Place

Student Achievements

NPTEL/MOOC/QUIZ

S. No	Student Name	Year	Course Name	Completion Level
1	Ms. M. Pavithra	II B.Tech. Chemical	Technologies for Clean and Renewable Energy production	Elite
2	Mr. P. Vasanth	III B.Tech. Chemical	Principles and Practices of Process Equipment and Plant Design	Elite + Silver
3	Mr. A. Thamaraiselvan	III B.Tech. Chemical	Principles and Practices of Process Equipment and Plant Design	Elite
4	Mr. S. Gowtheeswaran	III B.Tech. Chemical	Principles and Practices of Process Equipment and Plant Design	Elite
5	Ms. M. Pavithra	II B.Tech. Chemical	Membrane Technology	Successfully Completed
6	Mr. R. Reo Anselm	II B.Tech. Chemical	Air Pollution and Control	Successfully Completed

International and Other Certified Courses

S. No	Student Name	Year	Course Name	Completion Level
1	A. S. Sushmitha	II B.Tech. Chemical	Nasscom – Acquiring Data	Gold Medal
2	M. Alagusowdeswaran	II B.Tech. Chemical	Nasscom – Acquiring Data	Gold Medal
3	N. Kishore	II B.Tech. Chemical	Nasscom – Acquiring Data	Gold Medal
4	S. Karthika	II B.Tech. Chemical	Nasscom – Acquiring Data	Gold Medal
5	M. Haresh	II B.Tech. Chemical	Energy Literacy	Successfully Completed
6	M. Judith Infanta	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
7	M. Chellamirthini	II B.Tech. Chemical	Web Development Course by CCBP 4 Academy	Successfully Completed
8	S. Karthika	II B.Tech. Chemical	Digital Marketing Course by Udemy	Successfully Completed
9	R. Manikandan	II B.Tech. Chemical	MATLAB Onramp by MathWorks	Successfully Completed
10	A. S. Sushmitha	II B.Tech. Chemical	Introduction to IoT by SkillUp	Successfully Completed

Student Achievements

INTERNATIONAL AND OTHER CERTIFIED COURSES

S. No	Student Name	Year	Course Name	Completion Level
11	S. Surya Prakash	II B.Tech. Chemical	Basics of Python Programming by OpenWeaver	Successfully Completed
12	G. Kumaran	II B.Tech. Chemical	Japanese Language Proficiency Test	JLPT N4 level NAT Q5 level
13	S. Karthika	II B.Tech. Chemical	German Language	A1, Pradikat Grade
14	K. Ajay Krishnan	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
15	S. Antony Roshan	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
16	K. M. Anusri	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
17	P. Deepak	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
18	M. Dhanya Sri	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
19	M. Gokila	III B.Tech. Chemical	Nasscom – Acquiring Data	Gold Medal
20	V. S. Hrishma Sri	III B.Tech. Chemical	Accenture Futureskills Prime - Acquiring Data	Successfully Completed
21	A. Thamarai Selvan	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
22	J. Jimkoriyar	III B.Tech. Chemical	Nasscom – Acquiring Data	Bronze Medal
23	M. Judith Infanta	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
24	K. Ramkumar	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
25	M. A. Tharunesh	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
26	M. Dhanya Sri	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
27	R. Kavika	III B.Tech. Chemical	Nasscom – Acquiring Data	Silver Medal
28	A. U. Kanishka Sri	III B.Tech. Chemical	Nasscom – Acquiring Data	Bronze Medal
29	S. Abiram	II B.Tech. Chemical	Coursera – Customer Segmentation and Prospecting	Successfully Completed
30	P. L. Deivarayan	II B.Tech. Chemical	Ludifu-Python Programming	Successfully Completed

Student Achievements

INTERNATIONAL AND OTHER CERTIFIED COURSES

S. No	Student Name	Year	Course Name	Completion Level
31	P. L. Deivarayan	II B.Tech. Chemical	Ludifu-Corporate Behavioral Skills	Successfully Completed
32	P. L. Deivarayan	II B.Tech. Chemical	Ludifu-English Grooming Skills	Successfully Completed
33	P. L. Deivarayan	II B.Tech. Chemical	Ludifu-Corporate Behavioral Skills	Successfully Completed
34	P. L. Deivarayan	II B.Tech. Chemical	Ludifu-Microsoft Excel	Successfully Completed
35	P. L. Deivarayan	II B.Tech. Chemical	CCPB 4.0 Academy – Managing Yourself to Achieve Great Success	Successfully Completed
36	P. L. Deivarayan	II B.Tech. Chemical	Web Development Course by CCBP 4 Academy	Successfully Completed
37	P. L. Deivarayan	II B.Tech. Chemical	Perfect Plan B ELearning Private Limited-Python and Machine Learning Fundamentals	Successfully Completed
38	S. Karthika	II B.Tech. Chemical	Lumos Learning – HTML Certification	Successfully Completed
39	S. Karthika	II B.Tech. Chemical	Python Development – Pumo Technovation	Successfully Completed
40	B. Nikitha	II B.Tech. Chemical	Great Learning Academy – UI/UX course	Successfully Completed
41	S. Surya Prakash	II B.Tech. Chemical	UNEP – Digital Transformation for Sustainable Development	Successfully Completed
42	S. Surya Prakash	II B.Tech. Chemical	Microsoft Learn – Python for Beginners Bootcamp	Successfully Completed

“All our dreams can come true if we have the courage to pursue them.”

~ Walt Disney”

Student Achievements

AWARDS AND RECOGNITIONS

Smart India Hackathon 2022

Mr. M. L. Aakash, Mr. M. Akash, Mr. V. Anand Krishna, Mr. M. Chidhambaram, Mr. G. Chiranjeev, and Ms. M. Gokila, students of IV B.Tech. Chemical, guided by Dr. S. Karunakaran, Associate Professor/CH, and Mr. N. Arunkumar, Assistant Professor (Sr.Gr)/CH, emerged as winners in the SMART INDIA HACKATHON 2022. The event, organized by the Ministry of Consumer Affairs took place at Amal Jyothi College of Engineering, Kerala on 29/08/2022. We extend our deepest appreciation to Dr. S. Karunakaran and Mr. N. Arunkumar for their invaluable guidance and support throughout this remarkable journey. Their expertise and mentorship played a crucial role in shaping the students' ideas and enabling them to achieve this remarkable feat. The Department of Chemical Engineering is immensely proud of the students' accomplishment and commends them for their dedication and hard work.

PROJECT TITLE: SMART BUFFER STOCK SOLUTION
ORGANIZATION: MINISTRY OF CONSUMER AFFAIRS - VM742
VENUE: AMAL JYOTHI COLLEGE OF ENGINEERING, KANJIRAPALLY, KERALA
DATE: 25/08/2022 to 29/08/2022

MODEL DESCRIPTION

An integrated approach is employed to focus on both traditional and modern methods of onion storage, ensuring favorable conditions to maintain quality for a period of 6 months. A hybrid sensor capable of measuring temperature and relative humidity is utilized. A reverse exhaust mechanism facilitates sufficient air circulation through forced convection to control humidity levels. Polyvinyl tubes are installed at the bottom to facilitate water circulationmaintaining a temperature range of 25°C to 30°C. The storage structure takes the form of a rectangular cuboid covered by a dome constructed from polycarbonate sheets. To maintain favourable conditions, an insulated layer of aluminum foam is applied to the sides of the walls, while high-density polyethylene (HDPE) is used on the storage floor.

Student Achievements

AWARDS AND RECOGNITIONS

IGEN SDG Action Awards

The Institution of Green Engineers (IGEN) organized the Energy 99 challenge, in which five students from the Chemical Engineering Department of KPR Institute of Engineering and Technology, Coimbatore participated. The challenge involved engaging with approximately 100 individuals to raise awareness about 9 key practices for conserving energy at home. Mr. K. Ramkumar, Mr. S.Teepak Soorya, and Mr. A. Naveen Hubert, all students from the III B.Tech. Chemical Engineering, served as energy ambassadors and visited various public locations to promote awareness.In recognition of their efforts, the students were honored by IGEN with the IGEN SDG Action Awards on September 30th, 2022, at Kalaignar Karunanidhi Institute of Technology, Coimbatore.

Mr. A. Ramkumar, a student of III B.Tech. Chemical Engineering at KPRIET, receiving the IGEN SDG Action Awards from the Chief Guest.

Mr. S. Teepak Soorya III B.Tech. Chemical Engineering, KPRIET receiving IGEN SDG Action Awards form the Chief Guest.

Student Achievements

AWARDS AND RECOGNITIONS

Innovsense V2.0 2023

Celebrating Success

We are happy to share that the brilliant team led by Prof. S. Karunakaran and Mr. N. Arun Kumar has achieved an outstanding feat by securing the fourth position in the prestigious "Innovosense 2023" project contest. This competition, organized by the Center for Innovation, Incubation, and Entrepreneurship Development (CIIEDT) at KPRIET, has been a testament to their dedication and innovation. We extend our heartiest congratulations to Prof. S. Karunakaran, Mr. N. Arun Kumar, and their entire team for their remarkable success.

Revive Noyyal Action Plan

Students from the III B.Tech. Chemical Engineering participated in the Revive Noyyal Action Plan organized by Pasumai Thayagam and the Rotary Club of Singanallur. The event aimed to generate ideas for the revival of the Noyyal River. Our students presented an innovative idea and were awarded the third prize in the competition.We take great pride in our students' dedication to making a positive impact on the environment and commend their efforts in contributing towards the restoration of the Noyyal River. Their participation in such initiatives reflects their commitment to sustainability and environmental stewardship.

From left to Right: Ms. M. Judith Infanta, J. Jimkoriyar, J. Deepak, G. K. Parrvathavarthini receiving their prize from Dr. Anbumani Ramadoss

Student Achievements

AWARDS AND RECOGNITIONS

TNSCST Project

The dedicated team under the guidance of Prof. Lineesh P. has secured a grant from the Tamil Nadu State Council for Science and Technology for their groundbreaking project, "Novel Water Purifier for Desalinating Saline Water."

The project's focus on desalinating saline water opens new doors to sustainable and cost-effective solutions for regions facing water scarcity, particularly those located near coastal areas. This grant serves as a validation of the team's innovative approach and the potential impact of their research.

We extend our heartfelt congratulations to Prof. Lineesh P. and his team for this significant achievement. Your hard work and innovative thinking have positioned us at the forefront of research and development in the field of water purification and desalination.
Let us all take inspiration from this achievement and redouble our efforts to contribute meaningfully to scientific advancement and societal welfare.

Tamil Award

Mr. Surya Prakash, a bright student from our II B.Tech. Chemical program, has received the prestigious Tamil Award at the Maperum Tamil Kanavu Program organized by PSG College of Technology, Coimbatore.The Maperum Tamil Kanavu Program celebrates individuals who have contributed significantly to the promotion and preservation of the Tamil language and culture. Mr. Surya Prakash's accomplishment in this regard is a shining example of our commitment to nurturing well-rounded individuals who excel not only academically but also culturally and socially. Congratulations to Mr. Surya Prakash for this outstanding accomplishment. We are proud to have such exceptional individuals as part of our ChemE team at KPRIET, Coimbatore

Student Achievements

AWARDS AND RECOGNITIONS

PALS InnoWAH! Special Award

Hearty congratulations to the team guided by Dr. S. Karunakaran, Associate Professor in the Department of Chemical Engineering, and Ms. D. Devadharshini, a student of II B.Tech. Chemical, for their remarkable achievement of winning the Special Award for Product Development in InnoWAH 2023. The team showcased and presented their project, the Biodegradable Sanitary Napkin Vending Machine prototype, to a distinguished panel of jury members at the IITM Research Park as part of PALS InnoWAH! 2023, organized by IITM.

This recognition highlights the team's dedication, innovation, and contribution to sustainable product development. We extend our heartfelt congratulations to the team for their exceptional accomplishment and applaud their efforts in making a positive impact through their project.

Enviro Solvers Hackathon – Tamil Nadu Pollution Control Board

Mr. S. Abiram, a student of II B.Tech. Chemical Engineering, guided by Lt. Dr. A. K. Priya, successfully completed the 'Enviro-Solver's Hackathon, an initiative by the Tamil Nadu Pollution Control Board - India. Out of 196 participants, Mr. S. Abiram emerged as one of the Top 15 Finalists. The Tamil Nadu Pollution Control Board - India organized this hackathon to invite innovative ideas and solutions to address significant challenges related to 'SUP Reduced' and 'Water Saved.' In this regard, Mr. S. Abiram, along with Lt. Dr. A. K. Priya, accomplished an outstanding project titled 'Smart IoT-based Portable Water Purifier for Safe Drinking Water'. We extend our appreciation and gratitude to the Tamil Nadu PollutionControl Board - India for initiating this 'Enviro-Solver's Hackathon' and providing a platform for students like Mr. S. Abiram and Lt. Dr. A. K. Priya to showcase their innovative solutions. Their project exemplifies their dedication, creativity, and commitment to addressing critical environmental issues.

Student Achievements

AWARDS AND RECOGNITIONS

IEEE YESIST12 - Lightning Idea Content

We are delighted to extend our heartfelt congratulations to Mr. Kumaran G, a second-year Chemical Engineering student, for achieving a remarkable milestone as one of the winners of the Yesist12 WePower Lightning Idea Contest. Mr. Kumaran's outstanding creativity and dedication have shone through in this prestigious competition, reflecting his commitment to making a positive impact on our world. This achievement underscores his talent and hard work, leaving an indelible mark on our community. We are immensely proud of Mr. Kumaran's accomplishments and look forward to witnessing his continued growth and innovative contributions in the future.

Annual Day Awards

Student Achievements

AWARDS AND RECOGNITIONS

Annual Day Awards

Student Achievements

INTERNSHIP

ABB Global Industries and Services Limited, Bangalore – Paid Internship

International Internship

S.No	Name of the Student	Year	Industry Name	Duration in hours
1	Pavithra M	II B.Tech. Chemical	Mosaique Private Limited	120
2	Karthika S	II B.Tech. Chemical	Mosaique Private Limited	120
3	Kumaran G	II B.Tech. Chemical	Mosaique Private Limited	120

Student Achievements

INTERNSHIP

Industry Internship

S.No	Name of the Student	Year	Industry Name	Duration in Days
1	Abhimanneu S Viju	II B.Tech. Chemical	Travancore Titanium	17
2	Abiram S	II B.Tech. Chemical	SITRA	14
3	Ajay T S	II B.Tech. Chemical	Travancore Titanium	17
4	Akshaya K	II B.Tech. Chemical	Aavin Dairy Perur	7
5	Archana M	II B.Tech. Chemical	NLC CARD	13
6	Chellamirthini M	II B.Tech. Chemical	Pricol Pvt	15
7	Deivarayan P	II B.Tech. Chemical	Pricol Pvt	15
8	Devadharshini D	II B.Tech. Chemical	NLC Neyveli	20
9	Eraja Srider T	II B.Tech. Chemical	NLC Neyveli	20
10	Haresh M	II B.Tech. Chemical	NLC Neyveli	20
11	Harish S	II B.Tech. Chemical	TN Cements Alan	15
12	Harshitha R	II B.Tech. Chemical	Aavin Dairy Erode	7
13	Jeevan Kumar A	II B.Tech. Chemical	Kansai Nerolac	12
14	Kamal Prasad S	II B.Tech. Chemical	Sun Yarn Process	19
15	Karthick M	II B.Tech. Chemical	Patwari Bakers Madurai	13
16	Karthika S	II B.Tech. Chemical	Sun Shine Electroplating	7
17	Kishore N	II B.Tech. Chemical	NLC CARD Neyveli	13
18	Lahari M	II B.Tech. Chemical	Adhitya Engineering	16
19	Lavanya S	II B.Tech. Chemical	Micro Labs Banglore	10
20	Mageswarii M R	II B.Tech. Chemical	NLC Neyveli	20
21	Manikandan R	II B.Tech. Chemical	Effluent Treatment, Tiruppur	7
22	Manikandan R	II B.Tech. Chemical	Sitara Enterprises, Erode	7
23	Mouleeswaran S	II B.Tech. Chemical	Aavin Dairy Erode	7
24	Mownika N	II B.Tech. Chemical	ITC PSPD CBE	16
25	Musfira Ramalan K	II B.Tech. Chemical	CMS Niltun Paints, CBE	8

Student Achievements

INTERNSHIP

Industry Internship

S.No	Name of the Student	Year	Industry Name	Duration in Days
26	Nikitha B	II B.Tech. Chemical	Aavin Dairy Erode	16
27	Nishanthika K T	II B.Tech. Chemical	Aavin Dairy Erode	16
28	Pavithra M	II B.Tech. Chemical	GKG Knit Tirupur	6
29	Priyadharshini S	II B.Tech. Chemical	JS Auto Foundry	13
30	Reo Anselm R	II B.Tech. Chemical	Trvncore Titanium	17
31	Seshan E	II B.Tech. Chemical	Aavin Dairy Erode	16
32	Shreenithee D	II B.Tech. Chemical	CMS Niltun Paints, CBE	8
33	Suganraj A	II B.Tech. Chemical	Sakthi Sugars, Erode	18
34	Surya Prakash S	II B.Tech. Chemical	Effluent Treatment, Tiruppur	7
35	Surya Prakash S	II B.Tech. Chemical	Sitara Enterprises, Erode	7
36	Sushmitha A S	II B.Tech. Chemical	NLC CARD	13
37	Umamaheswari B	II B.Tech. Chemical	Sitara Enterprises, Erode	7
38	Umamaheswari B	II B.Tech. Chemical	Effluent Treatment, Tiruppur	7
39	Varshini J	II B.Tech. Chemical	Aavin Dairy Erode	7
40	Varun Y	II B.Tech. Chemical	Rolux Home Care, CBE	12
41	Vignesh R	II B.Tech. Chemical	Aavin Dairy Perur	7
42	Vinothane K T	II B.Tech. Chemical	Aavin Dairy Erode	7
43	Alagusowdeswaran M	II B.Tech. Chemical	Effluent Treatment, Tiruppur	7
44	Alagusowdeswaran M	II B.Tech. Chemical	Sitara Enterprises	7
45	Varshini J	II B.Tech. Chemical	Travancore Titanium	17
46	Varun Y	II B.Tech. Chemical	SITRA	14
47	Antony Roshan S	III B.Tech. Chemical	SPIC Tuticorin	12
48	Arivarasu K	III B.Tech. Chemical	SPIC Tuticorin	12
49	Arun Vijayan	III B.Tech. Chemical	SUPL Thrissur	16
50	Derits J	III B.Tech. Chemical	SPIC Tuticorin	12

Student Achievements

INTERNSHIP

Industry Internship

S.No	Name of the Student	Year	Industry Name	Duration in Days
51	Ezhilarasu S	III B.Tech. Chemical	KAK Tex Erode	21
52	Gnanasekar B	III B.Tech. Chemical	TANFAC Cudalore	6
53	Gokul T	III B.Tech. Chemical	KAK Tex Erode	21
54	Gowtham K	III B.Tech. Chemical	SPIC Tuticorin	12
55	Harsh Mohan	III B.Tech. Chemical	SUPL Thrissur	16
56	Harshan S	III B.Tech. Chemical	SUPL Thrissur	16
57	Kalpa M	III B.Tech. Chemical	SITRA	15
58	Logeshwaran M	III B.Tech. Chemical	Salem Steel	7
59	Mohamed Yaseen Raja	III B.Tech. Chemical	Aavin Perur	10
60	Mugundhan S	III B.Tech. Chemical	SPIC Tuticorin	12
61	Nirmalkumar R	III B.Tech. Chemical	KAK Tex Erode	21
62	Rithika J	III B.Tech. Chemical	Aavin Perur	7
63	Santhosh M	III B.Tech. Chemical	SUPL Thrissur	16
64	Shanmugapriya S	III B.Tech. Chemical	Aavin Perur	7
65	Suvega K	III B.Tech. Chemical	Aavin Perur	7
66	Tharunesh M A	III B.Tech. Chemical	Aavin Perur	10
67	Thavasipandian V	III B.Tech. Chemical	KAK Tex Erode	21
68	Thiru Murugan S	III B.Tech. Chemical	Aavin Perur	10
69	Vivekkumar R	III B.Tech. Chemical	MicroLabs Banglore	10
70	Abishek S P	III B.Tech. Chemical	KAK Tex Erode	21
71	Giriraj C	III B.Tech. Chemical	Aavin Perur	10
72	Iraianbu R	III B.Tech. Chemical	Malabar Cements	14
73	Iyappan S	III B.Tech. Chemical	DCW Tuticorin	10
74	James Nethaniel Issac	III B.Tech. Chemical	Aavin Perur	10
75	Kavin Kumar N V	III B.Tech. Chemical	KAK Tex Erode	21
76	Poovarasan I	III B.Tech. Chemical	KAK Tex Erode	21

Student Achievements

INTERNSHIP

Industry Internship

S.No	Name of the Student	Year	Industry Name	Duration in Days
77	Vasanth S	III B.Tech. Chemical	DCW Tuticorin	10
78	Ajay Krishnan K	III B.Tech. Chemical	KAK Tex Erode	21
79	Dharun R	III B.Tech. Chemical	KAK Tex Erode	21
80	Karthick T	III B.Tech. Chemical	Pon Pure Chennai	8
81	Shahil Hussain S	III B.Tech. Chemical	Pon Pure Chennai	8
82	Thamaraiselvan A	III B.Tech. Chemical	Synthite Maruthur	15
83	Dhanya Sri M	III B.Tech. Chemical	SPIC Tuticorin	15
84	Hrishma Sri V S	III B.Tech. Chemical	Aavin Ooty	14
85	Kanishka Sri A U	III B.Tech. Chemical	Aavin Ooty	14
86	Kavika R	III B.Tech. Chemical	Aavin Ooty	14
87	Mythili G	III B.Tech. Chemical	Aavin Perur	14
88	Priyanka S	III B.Tech. Chemical	SPIC Tuticorin	15
89	Sowmiya S	III B.Tech. Chemical	Aavin Ooty	14
90	Swetha M	III B.Tech. Chemical	Aavin Perur	14
91	Deepak P	III B.Tech. Chemical	Malabar Cement	14
92	Midhun M	III B.Tech. Chemical	Malabar Cement	14
93	Naveen Hubert A	III B.Tech. Chemical	SAIL Salem	14
94	Naveenkumar S	III B.Tech. Chemical	Malabar Cement	14
95	Ramkumar K	III B.Tech. Chemical	SAIL Salem	14
96	Richard W	III B.Tech. Chemical	Malabar Cements	14
97	Sakthi Shankar R	III B.Tech. Chemical	SAIL Salem	14
98	Teepak Soorya S	III B.Tech. Chemical	SAIL Salem	14
99	Gokila M	III B.Tech. Chemical	SPIC Tuticorin	15
100	Judith Infanta M	III B.Tech. Chemical	SITRA	15
101	Parrvathavarthini	III B.Tech. Chemical	SITRA	15
102	Jimkoriyar J	III B.Tech. Chemical	DCW Tuticorin	10

Student Achievements

INTERNSHIP

Industry Internship

S.No	Name of the Student	Year	Industry Name	Duration in Days
103	Prakash Raj P K	III B.Tech. Chemical	DCW Tuticorin	10
104	Bharath K S	III B.Tech. Chemical	TNPL Karur	32
105	Teja P V	III B.Tech. Chemical	TNPL Karur	32
106	Deepak J	III B.Tech. Chemical	Peps Coimbatore	13
107	Vasanth P	III B.Tech. Chemical	SAIL Salem	14
108	Jagadeeshwaran V	III B.Tech. Chemical	TANFAC Cuddalore	6
109	Anand Krishna V	IV B.Tech. Chemical	TNPL Karur	15
110	Arun B	IV B.Tech. Chemical	India Cements	16
111	Atharsh S	IV B.Tech. Chemical	Time Mills	13
112	Chandru S	IV B.Tech. Chemical	TNPL Karur	17
113	Chidhambaram M	IV B.Tech. Chemical	Momentive	14
114	Dhanush Haasan S	IV B.Tech. Chemical	Jyothy Labs	16
115	Elamparithi E	IV B.Tech. Chemical	KAK Textile	21
116	Giridharan S	IV B.Tech. Chemical	KAK Textile	15
117	Harine S B	IV B.Tech. Chemical	SITRA	17
118	Krithick S	IV B.Tech. Chemical	DCW Tuticorin	18
119	Krithick S	IV B.Tech. Chemical	Aavin Perur	15
120	Nithishkumar S	IV B.Tech. Chemical	DCW Tuticorin	15
121	Sanjay V	IV B.Tech. Chemical	DCW Tuticorin	15
122	Selvasakthi S	IV B.Tech. Chemical	DCW Tuticorin	15
123	Sriram K	IV B.Tech. Chemical	TNPL Karur	15
124	Naveen Kumar S	IV B.Tech. Chemical	SITRA	14
125	Nithish M	IV B.Tech. Chemical	DCW Tuticorin	15
126	Sivakumar T	IV B.Tech. Chemical	KKS Aqua Tirupur	15
127	Suresh G	IV B.Tech. Chemical	KAK Textile	15
128	Suthish A	IV B.Tech. Chemical	KAK Textile	21

Student Achievements

AWARDS AND RECOGNITIONS

Republic Day NCC Camp

The Department of Chemical Engineering takes immense pride in congratulating Cdt Sowmya, a student of III B.Tech. Chemical Engineering, for her exceptional achievements in the NCC. With her hard work and unwavering dedication, she has earned numerous awards across various categories. We are truly proud of her outstanding accomplishments and her commitment to excellence. Her achievements serve as an inspiration to the entire department and exemplify the spirit of perseverance and determination. We extend our heartfelt congratulations to Cdt Sowmya and wish her continued success in all her future endeavors.

Republic Day - NCC

The Department of Chemical Engineering takes immense pride in congratulating Cdt. Kanishka Shri A U, a student of III B.Tech. Chemical Engineering, for her participation in the Republic Day Marina Camp (MRDC) held in Chennai. We are truly proud of her accomplishments and her unwavering dedication to excellence. By attending the prestigious MRDC, she has demonstrated her commitment to the ideals and values of the nation. Her participation serves as an inspiration to the entire department and showcases her remarkable achievements. We extend our heartfelt congratulations to Cdt. Kanishka Shri A U and wish her continued success in all her future endeavors.

Cdt. A. U. Kanishka Sri receiving Appreciation Certificate from Commodore Atul Kumar Rastogi, Deputy Director General of the National Cadet Corps (DDGNCC)

Student Achievements

AWARDS AND RECOGNITIONS

Extra Curricular Activities

S.No	Name of the Student	Year	Category	Organizing Institute	Prize Won
1	P. K. Prakash Raj	III B.Tech. Chemical	Poetry Competition	Tamil Uravugal	IIIrd Place
2	M. Gokila M. Judith infanta S. Priyanka P. K. Prakash Raj S. Iyappan	III B.Tech. Chemical	Quiz Competition on "ASPEN HYSYS"	University College of Engineering, Anna University, Tiruchirappalli	IInd Place
3	R. Bupesh Kumar	I B.Tech. Chemical	Sports - 4th National Level 2023 Judo Tournament	Judo Federation of India	Participation
4	G. Harsha Vardhini	I B.Tech. Chemical	Sports - Kabaddi	CIT Alumni Trophy, Coimbatore Institute of Technology, Coimbatore	Won the Trophy
5	M. S. Sathyaprakash	II B.Tech. Chemical	Sports – Volley Ball	Aditya Sports and Games, Aditya Institute of Technology, Coimbatore	IIIrd Place
6	T. Eraja Srider K. Rajeesh D. Suniston	II B.Tech. Chemical	Sports - Football	12th Centies Football Tournament, Nehru Institute of Engineering & Technology, Coimbatore	Ist Place
7	Harsh Mohan Arun Vijayan	III B.Tech. Chemical	Sports - Football	12th Centies Football Tournament, Nehru Institute of Engineering & Technology, Coimbatore	Ist Place
8	Mr. D. Suniston	II B.Tech. Chemical	Sports - Football	Physical Education Department, SNS College of Technology, Coimbatore	IIIrd Place

Student Achievements

AWARDS AND RECOGNITIONS

Extra Curricular Activities

S.No	Name of the Student	Year	Category	Organizing Institute	Prize Won
9	B. Umamaheswari R. Manikandan K. T. Vinothane	II B.Tech. Chemical	Quiz – Chem-E-Auction	Department of Chemical Engineering, IIT Madras	IVth Place
10	T. Gokul V. Jagadeeshwaran K. Ajay Krishnan S. Vasanth R. Nirmal kumar C. James Nethaniel Isaac V. Teja K. S. Bharath N. V. Kavin Kumar M. A. Tharunesh R. Vivekkumar	III B.Tech. Chemical	Sports - Cricket	Department of Physical Education, KPRIET	Runner up
11	S. Mouleeswaran	II B.Tech. Chemical	Sports - Badminton	Sports Day 2023, KPRIET	IInd Place
12	K. T. Vinothane	II B.Tech. Chemical	Sports – Throw Ball	Physical Education Department, SNS College of Technology, Coimbatore	IIIrd Place
13	K. T. Vinothane	II B.Tech. Chemical	Sports – Throw Ball	Kumaraguru Institutions	Ist Place

Department Placements

2018-2022 Batch

2019-2023 Batch

ChemE Career Highlights

The Importance of the chemical technical professional

by Erin Dotlich, chair, ACS Committee on Technician Affairs June 25, 2023 | A version of this story appeared in Volume 101, Issue 20

The definition of a chemical technical professional (CTP) is not black and white. Unlike many scientific jobs, it isn't tied to an education level; a CTP can have a high school diploma, a PhD, or any qualification in between. The Committee on Technician Affairs (CTA) identifies CTPs by the scope of their work. Job titles a CTP may hold include chemical technician or technologist, associate-level chemist, chemistry associate, or chemical specialist.

CTPs often carry out routine or assigned work and are on a different career path than research scientists at the same organization. Some with a science education perceive the CTP role as unappealing, but it is operationally essential. The job can also be a great early-career stepping stone to more-senior research opportunities or to management.

CTPs are in high demand. More than 8,000 chemical technician and 10,000 associate-level chemist positions based in the US are currently listed on LinkedIn. And demand for CTPs is set to rise further: the US Bureau of Labor Statistics has projected that between 2021 and 2031, the number of chemical technicians will grow by 25.2%. These data tell us it is critical that CTP talent is developed and retained.

What we have been up to
The mission statement for the CTA is to "support, advance, and recognize the CTP," and these are its strategic goals:

- Create, identify, and disseminate tools for the professional development of CTPs.
- Highlight accomplishments of CTPs through awards and recognition.
- Work with stakeholders inside and outside the American Chemical Society.

CTA is working to update the criteria and rules for the National Chemical Technician Award to make it clearer that this honor recognizes the contribution of bench chemists rather than research scientists. The committee is also launching an enhanced website, loaded with informational and career development resources, contacts, and updated materials for each of its awards. In addition to the CTP-focused symposium the committee hosts at each ACS spring and fall meeting, it is organizing its first-ever technical award symposium for ACS Spring 2024. This symposium will have a theme based on the work of the 2024 National Chemical Technician Award winner. The CTA is analyzing CTP demographic data from various sources to find ways to better serve its stakeholders.

ChemE Career Highlights

The Importance of the chemical technical professional

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Help us achieve our mission

CTA members would like ACS local sections to do more to support CTPs. We would love to have more nominations from them for the CTA-sponsored ChemLuminary Award for Best Event or Activity Organized By, or Benefiting, the Applied Chemical Technology Professional. We are also asking local sections to offer more CTP-centric events and opportunities. As an example of an excellent event, the Mid-Michigan Technician Group recently invited students interested in CTP roles to a networking lunch and tour of Dow's research and development center in Auburn. It featured CTP-targeted presentations, outreach activities, networking events, and demonstrations.

If you are a CTP, a CTP mentor, a CTP manager, or an interested stakeholder, please consider attending the CTA open meetings, held the Sunday of ACS spring and fall meetings. You will hear what others are doing to support CTPs and meet like-minded people—and perhaps identify opportunities to collaborate across committees or sections. The next meeting will be held Aug. 13 at ACS Fall 2023. Consider presenting at the CTP-focused symposia at future ACS spring or fall meetings—we are always looking for engaging speakers who can highlight the important work that CTPs do.

Finally, the committee is recruiting. It is looking for highly motivated ACS members who are passionate about the careers of CTPs to join us. If you are interested in advancing the recognition and development of CTPs, please fill out the online committee preference form by July 3 and select CTA as one of your top choices. For more information about CTA or to inquire about working with or serving on the committee, visit our website at www.acs.org/cta or contact us at cta@acs.org.

Lt. Dr. A. K. Priya

My research areas include Bioremediation, Wastewater Treatment, Solid Waste Management, Air Pollution etc. My research interests are water and wastewater treatment using low-cost biological methods. In particular, I am interested in developing user-friendly ecofriendly products for societal causes. Bioremediation is an emerging technology which can be simultaneously used with other physical and chemical treatment methods for complete management of diverse groups of environmental pollutants. The outcome of my research is to remediate the heavy metal contaminated site/ wastewater by using techniques such as Immobilization, Phytoremediation, Biosorption, and Nanotechnology and also to assess the best technique for remediation of heavy metal contamination. These techniques have more advantages like works on a variety of organic and inorganic compounds, can be done either on-site or off-site, are low-cost compared to other treatment methods, reduce the amount of wastes to be landfilled, and can be combined with other technologies to enhance site remediation.

My research work mainly focuses on Wastewater treatment using biosorbents which are cheap and easily available. Specifically focussed on Hexavalent Chromium and other heavy metal removal from the synthetic and electroplating effluent using novel biosorbents. Experiments were conducted through by varying the parameters such as pH, concentration, agitation speed, temperature, size and dose (batch mode) and HRT, bed size, flowrate, concentration (column mode) etc. The obtained results were used for predicting suitable isotherm and kinetic models. Desorption studies were also performed for the same. Also various characterisation studies were also performed. By this research, we also try to adopt wastewater treatment advancemeant technologies in an effective manner

Dr. E. Nakkeeran

Dr. M. Laxmi Deepak Bhatlu

I am a dedicated researcher and advocate for sustainable solutions in the f ields of food waste valorization and water treatment. With a strong background in PhD in Chemical Engineering, I have devoted my career to exploring the potential of nano materials and biosorbents in addressing environmental challenges wastewater treatment. From the early stages of my academic journey, I have been deeply concerned about the staggering amount of food wasted globally and its adverse impact on our planet. Motivated by the belief that waste should not be wasted, I have focused my efforts on finding innovative ways to add value to food waste and reduce its environmental footprint. Simultaneously, I have been equally passionate aboutthe field of water treatment and the urgent need for clean and accessible water resources. Nano materials and biosorbents have emerged as promising tools in this domain, offering efficient and cost-effective solutions fo removing contaminants and pollutants from water sources.

Dr. R. Umapriya

The journey to revolutionize water and wastewater treatment, as well as hydrogen production, through innovative membrane fabrication, is an exciting and challenging endeavour. By focusing on flat sheet and tubular membrane development,with a specific emphasis on anion and cation exchange membranes, I strive to contribute to the advancement of these critical fields. Through continuous exploration of novel materials, fabrication techniques, and sustainable approaches, I aim to pave the way for efficient, cost-effective, and environmentally friendly solutions to address the world's pressing water and energy challenges.

My research area is Water Treatment Methods. We are working on Pharmaceutical Effluent treatment. Effluent from hospitals and the pharma industry needs to be treated before being released into the earth. We are using one of the sophisticated Advanced Oxidation Process (AOP) methods. Photocatalysis is one of the AOPs. We are synthesizing Bismuth Vanadate which is doped with innovative materials and the same is used to treat the effluent. Hope it will be economically used in the industry in an efficient manner.

Mr. K. Murugesan

Mr. J. Rohan

Passionate, Self-motivated, and humanitarian believe that meaningful & joyful education can bring sustainable social change. Incorporate a special set of resourcefulness and dissent in every part of my work. I commit myself to my work and I'm always trying to make myself a little better every time. Over a decade of my learning as an educator teaching in engineering colleges across the country, meaningful skill building in education needs a collaboration between pedagogy, content and technology. In the past has designed, facilitated, and scaled a blended learning professional development program for educators which has been adopted state-wide in Haryana, Uttarakhand, and Himachal for capacity building of trainers working in industrial training institutes. Have developed a meaningful STEM program initiative for Govt. Teachers in 8 states across the country. The unique blending of pedagogy and experiential learning made the STEM program very intuitive. Fortunate in working with more than 23 engineering college across the country in developing a faculty development program for creating meaningful classroom experiences. In my latest endeavor worked closely in the program management units of TN State School education department in some of the flagship initiatives like Illam Thedi Kalvi, Naan Mudhalvan etc. Also working closely with the SCERT for Teacher Professional Development and Employability Skills.

Dr. S. Balasubramanian

My research interests encompass the fascinating domains of paper microfluidics, process modeling and simulation, water treatment, and computational fluid dynamics. Driven by the potential of paper-based microfluidic devices to revolutionize point-of-care diagnostics, food, and environmental monitoring. By exploring the design and fabrication of paper-based systems, I aim to develop cost-effective and portable analytical tools with applications in healthcare, food and environmental sustainability. Additionally, I am deeply passionate about process modeling and simulation, leveraging computational techniques to optimize fluidic systems and enhance their performance. With a focus on water-related challenges, I strive to develop novel methodologies that efficiently address water quality, treatment, and management. By integrating computational fluid dynamics into my research, a deeper insight into fluid behaviour and optimize complex fluidic processes shall be gained. Through my research work, I aspire to contribute to the advancement of these fields and contribute to the development of sustainable and accessible solutions for real-world challenges.

My research area encompasses the fields of biofertilizers and hydroponics, with a strong focus on biotechnology and its applications in chemical engineering. I am deeply involved in exploring the potential of biofertilizers, which are environmentally friendly alternatives to chemical fertilizers, in enhancing crop productivity and sustainability. Additionally, I am actively engaged in the development of hydroponic systems, which allow for soil-less cultivation and efficient nutrient delivery to plants. Alongside these pursuits, I am dedicated to advancing technology and seeking patents to protect innovative solutions in the realm of chemical engineering. Through my research, I aim to contribute to the development of sustainable agriculture practices and the advancement of biotechnological applications, paving the way for a greener and more efficient future.

Dr. S. Karunakaran

Mr. N. Arunkumar

My research area revolves around the intersection of ceramics and wastewater treatment. I am committed to exploring the potential of ceramic materials in effectively treating and purifying wastewater. Ceramics offer unique properties such as high surface area, chemical stability, and mechanical strength, making them promising candidates for various wastewater treatment applications.
By developing innovative ceramic-based technologies, such as ceramic membranes and adsorbents, I aim to enhance the efficiency and effectiveness of wastewater treatment processes. Through my research, I aspire to contribute to the development of sustainable and cost-effective solutions for wastewater management, ultimately promoting environmental conservation and improving p ublic health.

Ms. L. Dharani

My research interest focuses on the production of value-added products from millets, particularly cookies and biscuits. I aim to explore the potential of millets as a nutritious and sustainable alternative in the food industry. By developing innovative processing techniques and formulations, I hope to create delicious and healthy products that promote the consumption of millets. Additionally, I am also involved in wastewater treatment using membrane technology, investigating its efficiency in removing pollutants and contaminants from industrial and domestic wastewater. Through my research journey, I aspire to contribute to both the food and environmental sectors by enhancing the utilization of millets and advancing wastewater treatment methods.

In my research, I focus on wastewater treatment using adsorbents. Adsorbents are materials that have the ability to attract and remove contaminants from water through adsorption processes. My work involves investigating and developing novel adsorbents that can effectively remove pollutants and contaminants from wastewater streams. Through my research, I strive to contribute to the advancement of wastewater treatment technologies, promoting clean and safe water resources for both environmental and human well-being.

Dr. G. Surendran

Dr. Nitu Kumari

My work involves investigating the fundamental properties of perovskite materials and exploring innovative strategies to improve their performance in solar cell devices. I study the synthesis and characterization of different types of perovskite structures, including hybrid organic-inorganic and all-inorganic perovskites, to understand their optoelectronic properties and device physics. Through my research on perovskite solar cells, I aim to contribute to the development of efficient, cost-effective, and environmentally friendly photovoltaic technologies that can help meet the increasing demand for renewable energy and address the challenges of climate change.

III B.Tech. Chemical Engineering

Ms. M. Judith Infanta

Over the past year, my college experience has been transformative, especially in the field of chemical engineering. I have been exposed to a vast array of knowledge and concepts that have deepened my understanding of the subject. Additionally, I had the opportunity to showcase my skills through paper presentations, which further enhanced my confidence. One of the highlights was securing an internship at ABB India Engineering Services, where I will gain practical experience and real-world insights. All in all, this year has been an exceptional journey of growth and learning.

My college experience has been a treasure trove of positive moments and uplifting experiences. The opportunity to immerse myself in my chosen field of study brought me immense joy and a deep sense of fulfilment. Engaging with passionate professors and fellow students fuelled my intellectual curiosity and inspired me to reach new heights. I also had the privilege of participating in various extracurricular activities, which allowed me to foster lifelong friendships and hone my leadership skills. Overall, the journey has been a remarkable chapter filled with personal growth, academic achievements, and unforgettable memories.

Mr. S. Teepak Soorya

III B.Tech. Chemical Engineering

II B.Tech. Chemical Engineering

Ms. R. Harshitha

The academic year 2022-2023 has been a truly transformative journey for me, providing invaluable experiences that have enhanced my confidence and broadened my horizons. Through internships, I gained practical insights into the real-world application of my field, solidifying my understanding and paving the way for future success. Engaging in paper presentations not only sharpened my communication skills but also allowed me to share my knowledge with peers and experts. Organizing events taught me valuable leadership and teamwork skills, while delving into core subjects deepened my expertise in the field. Overall, this year has been a remarkable blend of personal growth, academic achievements, and unforgettable experiences.

The hands-on approach to learning in the laboratory allowed me to apply theoretical knowledge to practical scenarios, deepening my understanding of complex concepts. These experiences not only sharpened my technical skills but also nurtured a problem-solving mindset that extends beyond the classroom. Engaging in experiential learning of subjects provided me with a holistic understanding of the material, enabling me to connect theory with real-world applications. The combination of academic excellence, laboratory experiences, and experiential learning has been instrumental in shaping my academic growth and equipping me with the skills necessary for future success

Mr. M. Manikandan

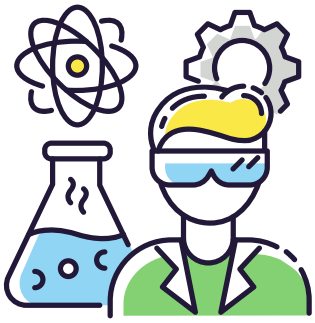
II B.Tech. Chemical Engineering

I B.Tech. Chemical Engineering

Ms. A. S. Shalini

During my first year at college, I had the pleasure of immersing myself in the serene and picturesque green campus of KPRIET. The tranquil environment provided the perfect backdrop for me to concentrate on my subjects and delve into gaining knowledge. Overall, my first year at KPRIET was an immersive experience that allowed me to grow academically while appreciating the natural beauty that surrounded me.

Research in the Department



The Department of Chemical Engineering at KPRIET is dedicated to conducting cutting-edge research in a diverse range of areas, addressing significant challenges and pushing the boundaries of knowledge. Our esteemed professors and researchers are at the forefront of numerous investigations, exploring innovative solutions to complex problems.

One prominent research focus within our department is water and wastewater treatment. Our experts are actively engaged in developing efficient and sustainable methods for the removal of contaminants. They explore the use of adsorption and membrane treatment techniques to enhance the quality of water resources. Through their work, they aim to advance the understanding of parameters that influence the fabrication and performance of polyvinylidene fluoride spiral-wound membrane modules, optimizing their efficacy.

Another fascinating area of research is the utilization of metal-organic frameworks (MOFs) as tools for sustainable cleaner production and environmental hazard reduction. Our researchers delve into the potential of MOFs to act as efficient catalysts and sorbents, thereby mitigating the adverse effects of hazardous substances in industrial processes. By harnessing the unique properties of MOFs, they aim to pave the way for a more sustainable and environmentally friendly future.

The department also focuses on the exploration of microorganisms for the biosorption of heavy metals. Through in-depth evaluations, our researchers investigate the underlying mechanisms of this process, aiming to develop effective strategies for the remediation of heavy metal-contaminated environments. This research contributes to the broader field of bioremediation and environmental conservation.

In response to the pressing need for sustainable energy sources, our department is actively involved in biomass conversion research. By leveraging cutting-edge technologies, our experts explore the efficient conversion of biomass into fuels. They investigate natural utilization systems and delve into the intricacies of various conversion methods, paving the way for the development of renewable energy resources.

Furthermore, the department focuses on addressing the pressing issue of microplastic pollution. Through comprehensive studies, our researchers investigate the mechanisms, challenges, and future prospects of algal degradation of microplastics. Their work contributes to understanding the potential of utilizing natural processes for mitigating the harmful effects of microplastics on ecosystems.

Wastewater remediation is another crucial area of research within our department. The development and evaluation of chitosan-based beads as sustainable adsorbents for wastewater remediation are explored in detail. By reviewing the effectiveness and applicability of these adsorbents, our researchers aim to provide insights for the development of efficient and environmentally friendly wastewater treatment methods.

Research in the Department

Additionally, our department actively investigates the synthesis of nano-catalysts for the production of biodiesel from tannery sludge. Through rigorous characterization and optimization, our researchers strive to enhance the efficiency and sustainability of biodiesel production processes, contributing to the renewable energy sector.

Moreover, our experts delve into data-based modeling and advanced control techniques for complex processes. By utilizing multiple time-scale recurrent neural networks, they develop models to accurately predict and optimize multi-timescale systems, facilitating more efficient and precise process control.

These are just a few examples of the diverse research areas within our department. Through their rigorous investigations, our professors are making significant contributions to their respective fields, shaping the future of chemical engineering and paving the way for sustainable advancements in various industries.

Notable publications

- Yasser Vasseghian, Priya Arunkumar, Sang-Woo Joo, Lalitha Gnanasekaran, Hesam Kamyab, Saravanan Rajendran, Deepanraj Balakrishnan, Shreeshivadasan Chelliapan, Jiří Jaromír Klemeš, “Metal-organic framework-enabled pesticides are an emerging tool for sustainable cleaner production and environmental hazard reduction”, Journal of Cleaner Production, Volume 373, November 2022.

- Bonasi Krishna Srihari, Ashish Kapoor, Suresh Krishnan, Sivasamy Balasubramanian, “Computational Fluid Dynamics Studies on the Flow of Fluids through Microchannel with Intentional Obstacles”, AIP Conference Proceedings, https://doi.org/10.1063/5.018550, November 2022.

- K Suresh, Ashish Kapoor, Krishna Srihari Bonasi, S Balasubramanian, “Thermal Processing of Liquid Food in a Rectangular Prism-Type Container”, AIP Conference Proceedings, https://doi.org/10.1063/5.0108654, November 2022.

- K Senthilkumar, L Dharani, J Jayabharathi, M Naveenkumar, N Pooja, “Graphene Derived Electrode Materials for Microbial Fuel Cells”, Sustainable Materials Technology, Springer, Chapter 5, pp: 119-138, October 2022.

- Pooja Nandakumar, Dharani Loganathan, Deepa Priya Natarajan, Periyasamy Manikandan “Shell and Tube Heat Exchangers in the Food Industry”, Elsevier, Chapter 5, pp: 153-179, December 2022.

- Karunakaran Saravanan, Vijaya Kumar Booramurthy, Sivakumar Pandian and Ravishankar Sathyamurthy, “Synthesizes of Nanocatalyst for the Production of Biodiesel from Tannery Sludge; Characteriztion and Optimization”, Theoretical Foundations of Chemical Engineering, February 2022.

Notable publications

- Gaurav Kumar Porichla, M. Venkatesh Prabhu, Ashish Kapoor and S. Balasubramanian, “Lipid Extraction from Freshwater and Marine Microalgae Using Confined Impinging Jet Mixer”, AIP Conference Proceedings, February 2023.

- K. Suresh, S. Balasubramanian and K.Sofiya, “Impact on the effect of acetic acid in its aqueous forms on environments and its separation methods”, AIP Conference Proceedings, February 2023.

- Srinivasan Raju and S. Karunakaran, “Investigation on the Mechanical Properties of Powder Metallurgy-Manufactured AA7178/ZrSiO4 Nanocomposites”, Advances in Material Science and Engineering, May 2023

- AK Priya, Lalitha Gnanasekaran, Kingshuk Dutta, Saravanan Rajendran, Deepanraj Balakrishnan, Matias Soto-Moscoso, “Biosorption of heavy metals by microorganisms: Evaluation of different underlying mechanisms”, Chemosphere, November 2022.

- Lalitha Gnanasekaran, A.K. Priya, S. Thanigaivel, Tuan K.A. Hoang, Matias Soto-Moscoso, “The conversion of biomass to fuels via cutting-edge technologies: Explorations from natural utilization systems” Fuel, January, 2023.

- A.K. Priya, A.A. Jalil, Kingshuk Dutta, Saravanan Rajendran, Yasser Vasseghian, Hassan Karimi-Maleh, Matias Soto-Moscoso, “Algal degradation of microplastic from the environment: Mechanism, challenges, and future prospects”, Algal Research, September 2022.

- Muthamilselvi Ponnuchamy, Sivasamy Balasubramanian, Ashish Kapoor, Sivaraman Prabhakar, “Natural materials as adsorbents for water purification”, Green Sustainable Process for Chemical and Environmental Engineering and Science, Elsevier, January 2023.

- Subramanian Kavitha, Saroj Sundar Baral, Surendran Ganesan, “Removal of Hexavalent Chromium using Emulsion Liquid Membrane with jet mixer-a continuous approach”, Chemical Engineering & Technology, February 2023.

- M Laxmi Deepak Bhatlu, PS Athira, Neethu Jayan, Debabrata Barik, Milon Selvam Dennison, “Preparation of Breadfruit Leaf Biochar for the Application of Congo Red Dye Removal from Aqueous Solution and Optimization of Factors by RSM-BBD”, Adsorption Science & Technology, February 2023.

- Yasser Vasseghian, Priya Arunkumar, SangWoo Joo, Lalitha Gnanasekaran, Hesam Kamyab, Saravanan Rajendran, Deepanraj Balakrishnan, Shreeshivadasan Chelliapan, “Metal-organic framework-enabled pesticides are an emerging tool for sustainable cleaner production and environmental hazard reduction”, Journal of Cleaner Production, November 2022.

- Venkatesh Prabhu Murugesan, Shreyasi Ghosh, Aditi Tulshyan, Abbas Ansar Ahmed, Balasubramanian Sivasamy, Ashish Kapoor, Selvam Karuppasamy, “Modeling and multi-objective optimization of parameters in fabrication and performance analysis of polyvinylidene fluoride spiral-wound membrane modules”, Polymer Bulletin, July 2002.

Research in the Department

Notable publications

- Ngiam Li Jian, Haslinda Zabiri, Marappagounder Ramasamy, “Control of the Multi-Timescale Process Using Multiple Timescale Recurrent Neural Network-Based Model Predictive Control”, Industrial & Engineering Chemistry Research, April 2023.

- Obaid ur Rehman, Marappa Gounder Ramasamy, Nor Erniza Mohammad Rozali, Shuhaimi Mahadzir, Ali Shaan Manzoor Ghumman, Abdul Hannan Qureshi, “Modeling Strategies for Crude Oil-Induced Fouling in Heat Exchangers: A Review”, Processes, March 2023.

- Hong-Ha T.Nguyen, Ha Tran Nguyen, Shams Forruque Ahmed, Natarajan Rajamohan, Mohammad Yusuf, Ajit Sharma, Priya Arunkumar, Balakrishnan Deepanraj, Huu-Tuan Tran, Adel Al-Gheethi, Dai-Viet N.Vo, “Emerging waste-to wealth applications of fly ash for environmental remediation: A review”, Environmental Research, June 2023.

- A. K. Priya, Muthiah Muruganandam, Sameh S. Ali and Michael Kormaros, “Clean-Up of Heavy Metals from Contaminated Soil by Phytoremediation: A Multidisciplinary and Eco-Friendly Approach”, Toxins, May 2023.

- A. K. Priya, Avinashi Alagumalai, Devarajan Balaji, Hua Song, “bio-based agricultural products: a sustainable alternative to agrochemicals for promoting circular economy” RSC Sustainability, April 2023.

- A. K. Priya, D. Balaji, J. Vijayaraghavan, J. Thivya, R. Anand, “The Role of Microbes in the Degradation of Plastics and Directions Toward Greener Bioplastic”, CRC Press, 2022.

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