

Event Organizing Report

No	Event Name	Venue	Date Time	Org. Dept.
1	AI IMPACT ON CHEMICAL ENGINEERING	https://meet.google.com/mrv-qyys-ify	29/04/2023 - 10:30 AM	CH
2	DYNAMIC SIMULATION OF A DISTILLATION COLUMN IN DWSIM	CSE - LIS LAB	28/04/2023 - 02:30 PM	CH
3	INDUSTRY VISIT TO SESHASAYEE PAPER BOARD LTD, ERODE	Seshasayee Paper Board Ltd, Erode	25/04/2023 - 02:30 PM	CH
4	GUEST LECTURE	Veena Hall	27/04/2023 - 02:00 AM	CH
5	FOOD PROCESSING AND PRESERVATION	CH II	17/04/2023 - 02:30 PM	CH
6	DEMYSTIFYING PROJECT REPORT AND PRESENTATION FOR UNDERGRADUATE STUDENTS	Chemical 3rd year classroom	29/03/2023 - 03:00 PM	CH
7	EXPLORING DYNAMICS OF FLUIDS: COMPUTATIONAL TOOLS AND TECHNIQUES FOR CHEMICAL ENGINEERS	Thanam Hall	21/03/2023 - 03:00 PM	CH
8	ALUMNI INTERACTION WITH STUDENTS	III CH classroom	08/10/2022 - 11:00 AM	CH
9	BASICS OF ASPEN PLUS	LIS Lab	25/03/2023 - 09:30 AM	CH
10	WORLD WATER DAY 2023	Raagam Hall	23/03/2023 - 09:30 AM	CH
11	ALUMNI TALK	III CH classroom	02/03/2023 - 11:15 AM	CH
12	DEVELOPMENT OF ANIMATION AS A TOOL FOR LEARNING CHEMICAL ENGINEERING PRINCIPLES	Veena Hall	02/08/2022 - 03:00 PM	CH
13	DATA SCIENCE IN CHEME	Thanam Hall	21/02/2023 - 02:00 PM	CH
14	PAPER PRESENTATION	II CHEMICAL CLASS ROOM	16/02/2023 - 10:00 AM	CH
15	TECHNICAL QUIZ (FIESTAA'23)	III CH - Classroom	17/02/2023 - 10:00 AM	CH
16	DWSIM SIMULATION	Learning and Intelligent Systems Lab	16/02/2023 - 11:00 AM	CH
17	CHEM CONNECT	II CH Classroom	17/02/2023 - 10:00 AM	CH
18	HIDDEN HEALTH PROFILE OF MILLETS	Veena Hall	11/01/2023 - 02:00 PM	CH
19	ALUMNI SERIES - I	https://meet.google.com/vbb-jndj-zqt	29/08/2022 - 02:00 PM	CH
20	"CAVITATION ASSISTED INTENSIFICATION OF OIL IN WATER EMULSIFICATION PROCESS.	http://meet.google.com/ois-qmcr-uid	17/08/2022 - 03:00 PM	CH
21	GUEST LECTURE ON "REACTIVE DISTILLATION AND IT'S INDUSTRIAL APPLICATION".	Classroom http://meet.google.com/ois-qmcr-uid	10/08/2022 - 03:00 PM	CH
22	RECENT ADVANCEMENTS IN WATER TREATMENT-RAWT 2022	https://us06web.zoom.us/j/87681171964?pwd=Y0krNUYwRkNYdURMTkxuUm9meXpxZz09	17/10/2022 - 09:30 AM	CH
23	ENGINEER'S DAY CELEBRATION	Thanam Hall	23/09/2022 - 02:00 PM	CH
24	WEBINAR ON EXPLORING INTERNATIONAL OPPORTUNITIES FOR CHEMICAL ENGINEERING UNDERGRADUATE STUDENTS	Online https://us06web.zoom.us/j/85691983853?pwd=Z2V0dGliL2x0YStNc0txOW13RVd0UT09	12/01/2023 - 02:00 PM	CH
25	MILLETS TOWARD NUTRITIONAL HEALTH	Veena Hall	11/01/2023 - 03:00 PM	CH

No	Event Name	Venue	Date Time	Org. Dept.
26	ALL INDIA SEMINAR ON WASTEWATER TREATMENT SYSTEMS: WATER EFFICIENT TECHNOLOGIES AND OPPORTUNITIES	Veena Hall	22/12/2022 - 09:00 AM	CH
27	INFORMAL INTERACTION WITH INDUSTRY EXPERT	CHEMICAL III YR CLASSROOM	04/11/2022 - 10:00 AM	CH
28	CHEMICAL METALLURGY IN MINING AND MINERAL PROCESSING	Thanam Hall	21/07/2022 - 11:00 AM	CH



001: AI IMPACT ON CHEMICAL ENGINEERING

Event No	CH031
Organizing Department	Chemical Engineering
Date	29/04/2023
Time	10:30 AM to 11:30 AM
Event Type	Association Activity
Event Level	Department Level
Meeting Medium	
Meeting Link	https://meet.google.com/mrv-qyys-ify

Related SDG



Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Anishai Raju	Director	Starapp Media Pte Ltd, Singapore	karunakaran.s@kpriet.ac.in	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Karunakaran S	Convenor
2	Arunkumar N	Convenor

Outcome

--NA--

Event Summary

--NA--



[Click to View](#)

002: DYNAMIC SIMULATION OF A DISTILLATION COLUMN IN DWSIM

Event No	CH030
Organizing Department	Chemical Engineering
Date	28/04/2023
Time	02:30 PM to 04:00 PM
Event Type	Workshop
Event Level	Department Level
Venue	CSE - LIS LAB
Total Participants	20
Students - Internal	20

Related SDG



Involved Staffs

Sl	Name	Role
1	Bharathi Ganesan R	Coordinator

Outcome

Students know how to do steady state simulation of shortcut and rigorous distillation columns using DWSIM

Event Summary

The event was preponed to 28.03.'23 09:00 to 10:00 AM as the resource person had to coordinate value added course at 02:30 PM same day. The session started with the need to learn software tools relevant to Chemical Engineering such as AutoCad, solid works for 3D drawings, python or MATLAB coding and process simulators such as Aspen or DWSIM. The typical steps involved in creating a new steady state simulation in DWSIM were stated. Adding all the compounds involved in the simulation, choosing an appropriate thermodynamic package based on the compounds, operating condition and application were explained briefly. Then choice of system of units was shown. A tutorial problem on distillation of carbon disulphide and carbon tetra chloride was chosen for the demonstration. The more volatile material was identified by viewing boiling point of individual compounds and by generating a binary phase envelope utility. In the utility, Txy and xy graphs were generated. A shortcut distillation column was added and the feed stream parameters were given based on the problem statement. In the parameters for the shortcut column, CS₂ was given as the light key, their required compositions were entered as given. The minimum reflux ratio and minimum number of stages were noted for next step. The shortcut column was deleted and a rigorous distillation column was added to the flowsheet for the same feed stream. In the rigorous column, number of stages, feed stage location, quality of product in condenser and reboiler were specified and solved. An adjust controller was added to solve the problem repetitively. However, the number of stages remained the same for any change in the reflux ratio. The dynamic simulation mode was enabled but since DWSIM did not support dynamic simulation of distillation columns, the demo was restricted to steady state simulation. The event ended at about 10 AM.



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC 'A')
Avinashi Road, Araur, Coimbatore.

Department of Chemical Engineering



ORGANIZES WORKSHOP ON

Computer Applications in ChemE :

Dynamic Simulation of a Distillation Column in DWSIM

FRIDAY, APRIL 28TH 2023

LIS LAB (ground floor below CoE)

02:30 PM to 04:00 PM



Resource Person
Dr. R. Bharathi Ganesan
AP (Sr.G) / CH
KPRIET



Only 30 seats
Register at:
<https://bit.ly/3AuDkQb>

Student Coordinators
Vasanth P / III CH
Gowtheeswaran S / III CH

kpriet.ac.in  /KPRIETonline



[Click to View](#)



[Click to View](#)



[Click to View](#)

003: INDUSTRY VISIT TO SESHASAYEE PAPER BOARD LTD, ERODE

Event No	CH029
Organizing Department	Chemical Engineering
Associate Dept. NSC	Industry Institute Partnership Cell
Date	25/04/2023
Time	02:30 PM to 04:30 PM
Event Type	Expert Visit
Event Level	Department Level
Venue	Seshasayee Paper Board Ltd, Erode
Total Participants	35
Faculty - Internal	2
Students - Internal	33

Related SDG



Involved Staffs

SI	Name	Role
1	Bharathi Ganesan R	Coordinator
2	Murugesan K	Coordinator

Outcome

Students exposure to pulp and paper industry with high sensitivity towards corrosion and water leakage in industrial area

Event Summary

During the bus travel towards the industry, the students were briefly primed about what a paper is, what are its constituents, uses of paper and the Kraft process of paper manufacture. This was done to bring the students attention to industry and refresh their knowledge of before the industry visit. We reached the industry at about 02:45 PM to report to Public Relations Office. After providing mask and safety helmets, 33 students and 2 faculty started walking through the industry at 03:00 PM. We walked past the testing laboratory on the left and a building under demolition on the right. By walk we reached the chipping house where medium sized logs of woods were lifted by cranes and dropped into crushers. We saw some powdered material, later came to know as wood dust, being sprayed with water and transported in slurry form. Bagasse was also finely chopped and transported in slurry form. We stopped at this point and the entire process was explained by two apprentice trainees. Many of our students took note of what the trainees explained. We spotted parts of screw conveyor, agitators and centrifugal pump in action. The trainees explained how the wood and bagasse are digested using white liquor into pulp. Stream containing 70-80% wood pulp and 20-30% bagasse pulp were mixed with 90% water and sent to the paper machine section, on second floor of a building. Due to operational hazard, we were not allowed to stand between the white and color paper making machine on the left and right respectively. We watched the machines in action as we walked passed them. There were LED boards displaying grams per square meter (gsm) and percentage of moisture in real time. We gathered at the end of the paper machine section, where once again the trainees clarified further doubts as they interacted with our students. We slowed walked down the building and reached the safety office. In front of the paper mill, we all assembled and took a group photo. In the bus, again we students discussed on the observation we made during the visit. We followed the 'Thinking Hat' approach where during the group discussion, students were encouraged to wear the 'Hat' / role of an investor, a process engineer, a safety engineer, pollution control board inspector, ISO auditor and student. It was evident that Students learned a lot based on their experience. Some of their thoughts and opinions are summarized here. Students learned the importance of being organized as flow or process sheet for all aspects of the industry. Wearing investor hat, one of our student justified his decision to invest in the company. Others proposed solutions for leakage, corrosion, regular maintenance, need to update the equipment periodically and phased manner of modernization.



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

Department of Chemical Engineering

Great Place to Work Certified

ORGANIZES INDUSTRY VISIT TO

Seshasayee Paper and Boards Limited
Pallipalayam, Erode

TUESDAY APRIL 25TH 2023

SPB, Erode

02:30 PM to 04:00 PM

IV Coordinators
Dr. R. Bharathi Ganesan AP (Sr.G) / CH
Mr. K. Murugesan AP (Sr.G) / CH

kpriet.ac.in

[Click to View](#)



[Click to View](#)



[Click to View](#)

004: GUEST LECTURE

Event No	CH028
Organizing Department	Chemical Engineering
Associate Dept. NSC	Chemical Engineering
Date	27/04/2023
Time	02:00 AM to 04:00 AM
Event Type	Guest Lecture
Event Level	Department Level
Venue	Veena Hall
Total Participants	125
Faculty - Internal	5
Students - Internal	120

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Mr G Sridhar	HR Manager	KG Denim Ltd	hr@kgdenim.co.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Nakkeeran E	Convenor

Outcome

1. Outcome of the program are
 - (i) The students will learn how to cope up the stress individually
 - (ii) It provides a bridge from college to corporate culture
 - (iii) Helps the students to face the interviewer confidentially
 - (iv) Students will learn how to satisfy the corporate expectations

Event Summary

Department of Chemical Engineering, KPR Institute of Engineering and Technology, Arasur, COimbatore organised a guest lecture on Coping Stress and how to win an interview on 27.4.23 at veena hall between 2-4pm for the benefit of all the years of chemical engineering students. Resource person for the event is Mr. G. Sridhar, HR Manager, KG Denm Limited, Mettupalayam who has several years of experience in this domain. This session will enlighten the students to hike their career to the next level. This program is organised keeping in the mind that the outcomes will be as follows, (a) The students will learn how to cope up the stress individually (b) It provides a bridge from college to corporate culture (c) Helps the students to face the interviewer confidentially (d) Students will learn how to satisfy the corporate expectations. Convenor of the programmes is Dr. E. Nakkeeran, Associate Professor, Chemical engineering department, KPR Institute of Engineering and Technology, Arasur, Coimbatore. Student coordinator Mr. Deepak J, given Moc for the event. The event started with Tamizhthaai vaazhththu, followed by KPR anthem, felicitation by HoD Dr.S. Balasubramanian and presenting a memento to the resource person. Mr. G. Sridhar started his lecture with the lightning note of the event and enthralled the audience with his heartwarming and enthuthiastic speech which all the participants enjoyed thoroughly. His interactive sessions are very nice which was heartily welcomed and enjoyed by the audience in a grandeur note. He made the audiences to enjoy all the moments of the lecture . students also asked some good questions for which he had answered nicely with good examples. Overall, the event ended on a happy note with the national anthem.



[Click to View](#)



[Click to View](#)



[Click to View](#)

005: FOOD PROCESSING AND PRESERVATION

Event No	CH027
Organizing Department	Chemical Engineering
Associate Dept. NSC	Industry Institute Partnership Cell
Date	17/04/2023 to 29/04/2023 (13 Days)
Time	02:30 PM to 04:20 PM
Event Type	VAC / Training Program
Event Level	Department Level
Venue	CH II
Total Participants	35
Faculty - Internal	1
Students - Internal	33
Other Participants	1

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Sindhu S	Assistant Professor	PSG College of Arts and Science, Coimbatore	sindhufsn@gmail.com	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Bharathi Ganesan R	Coordinator

Outcome

Students enjoyed the jam/squash preparation session, demo of preparation of flavored milk and millet pasta. Students are eager to establish stalls in KPRIET and supply healthy food with superb taste to venture as entrepreneurs

Event Summary

The classes for value added course “Food Processing and Preservation” started on 17 Apr 2023 and ended on 29 Apr 2023 as per the schedule. On Day 1, Dr. Sindhu covered Chemistry of Foods on topics like functions of food for energy, body building and psychological effects. Then the constituents of food namely carbohydrates, protein, lipids and fats were elaborated. On Day 2, importance of food preservation was dealt by Dr. Thamarai Selvi. Prevention of microbial decomposition, self decomposition and mechanical damages were discussed by highlighting the role of microbes, enzymes and insects / rodents in the above activities.

On Day 3, temperature based food preservation techniques such as pasteurization, sterilization, canning and irradiation were handled. On Day 4, Er. Sreelakshmi illustrated various mechanical operations involved in food processing such as cleaning, blanching and mixing. Further the engineering properties of food viz. mechanical, thermal, rheological and aero dynamic were individually explained. On Day 5, Ms. Jincy A discussed microbiology of foods through discussion on bacteria, fungi, lichens, algae and ways to avoid them for preservation. Spoilage of milk, fish, poultry and their products were also elaborated.

On the final day, safety standards were discussed after a brief introduction about the PSG Food Processing Centre by Dr. Radhai Sri, Head, Department of Food Processing Technology. Then students were explained about the various equipment present in pre-processing, processing and packing bays. The utilities section of chiller, steam and reverse osmosis were also shown. The students by themselves pasteurized flavoured milk and individually packed them into recyclable bottles. In the afternoon, students by made jam, squash and ready

to serve drinks by themselves in the food processing technology lab. This motivated them a lot and students were excited to undergo further training and undertake entrepreneurship in food area. Training Certificates have also been provided to the students and coordinators by PSG Food Processing Centre, PSGCAS. The course ended successfully. The feedback have been collected and result analysis prepared.



KPRIET
Department of Chemical Engineering

Value Added Course
FOOD PROCESSING AND PRESERVATION

by Department of Food Processing Technology
 PSG College of Arts and Science
 Coimbatore 14

Resource Persons
 Dr. Sindhu S
 Dr. Thamarai Selvi M
 Ms. Jincy Abraham

17-28 Apr @ CH II

17 Apr 2023 02:30 - 04:20 PM
 19 Apr 2023 02:30 - 04:20 PM
 24 Apr 2023 02:30 - 04:20 PM
 26 Apr 2023 02:30 - 04:20 PM
 28 Apr 2023 02:30 - 04:20 PM

29 Apr '23 @ PSGCAS

Faculty Coordinator
 Dr. Bharathi Ganesan/AP(SrG) ChemE

KPRIET
 kpriet.edu.in

[Click to View](#)



[Click to View](#)



[Click to View](#)

006: DEMYSTIFYING PROJECT REPORT AND PRESENTATION FOR UNDERGRADUATE STUDENTS

Event No	CH026
Organizing Department	Chemical Engineering
Date	29/03/2023
Time	03:00 PM to 04:00 PM
Event Type	Expert Talk
Event Level	Department Level
Venue	Chemical 3rd year classroom
Total Participants	53
Faculty - Internal	3
Students - Internal	50

Related SDG



Involved Staffs

Sl	Name	Role
1	Nitu Kumari	Convenor
2	Laxmi Deepak Bhatlu M	Co-convenor

Outcome

Department of Chemical Engineering at KPR Institute of Engineering and Technology, Coimbatore has organized an orientation program on "EMYSTIFYING PROJECT REPORT AND PRESENTATION FOR UNDERGRADUATE STUDENTS" on 30.03.2023, 15.00 PM - 16.00 PM through offline mode. Dr. S. Balasubramnian and Dr. Laxmi Deepak Bhatlu were the speaker of the orientation program. There were around 50+ participants including faculty members and students. The session was very interesting and interactive. Ms. Priyanka has given the welcome address and brief introduction and Mr. Naveen Hubert of third year has proposed a vote of thanks.

Event Summary

Department of Chemical Engineering at KPR Institute of Engineering and Technology, Coimbatore has organized an orientation program on "EMYSTIFYING PROJECT REPORT AND PRESENTATION FOR UNDERGRADUATE STUDENTS" on 30.03.2023, 15.00 PM - 16.00 PM through offline mode. Dr. S. Balasubramnian and Dr. Laxmi Deepak Bhatlu were the speaker of the orientation program. There were around 50+ participants including faculty members and students. The session was very interesting and interactive. Ms. Priyanka has given the welcome address and brief introduction and Mr. Naveen Hubert of third year has proposed a vote of thanks.

After the orientation, Students can had gain knowledge for the following.

Faster document production than with word processors.

- Easier collaboration between authors as LaTeX is a plain text format and easily version controlled.
- Documents can be converted to other formats such as PDF or HTML with ease.
- High quality typesetting of mathematical equations, figures, tables and diagrams.
- Automatic generation of bibliographies and indexes using BibTeX.

Latex orientation can help students to:

- Understand the basics of LaTeX and be able to create simple documents.
- Format text, math mode equations, tables and figures.
- Create bibliographies and indexes automatically with BibTeX.
- Produce high-quality documents quickly and efficiently with minimal effort.

Also, we can say that Latex code is not difficult to learn and can be used for a variety of purposes. It is an excellent choice for typesetting academic papers, books, presentations and other documents since it allows users to produce high-quality results quickly with minimal effort. Additionally, LaTeX has many advantages over traditional word processors such as faster production times, better collaboration between authors and easier conversion into different file formats.



Department of Chemical Engineering
Organizes an Orientation on
LaTeX
DEMYSIFYING PROJECT REPORT AND PRESENTATION FOR
UNDERGRADUATE STUDENTS
SPEAKERS

Dr. S. BALASUBRAMANIAN
Professor & Head
Department of Chemical Engineering
KPRIET

Dr. M. LAXMI DEEPAK BHATLU
Assistant Professor (Sr. Gr)
Department of Chemical Engineering
KPRIET

29.03.2023 III CH Classroom 3 PM - 4 PM

Faculty Coordinator: Dr. Nitu Kumari, AP (Sr. Gr) / CH
Student Coordinator(s): Mr. A. Naveen Hubert, III CH; Ms. S. Priyanka, III CH

[Click to View](#)



[Click to View](#)



[Click to View](#)

007: EXPLORING DYNAMICS OF FLUIDS: COMPUTATIONAL TOOLS AND TECHNIQUES FOR CHEMICAL ENGINEERS

Event No	CH025
Organizing Department	Chemical Engineering
Date	21/03/2023
Time	03:00 PM to 04:00 PM
Event Type	Expert Talk
Event Level	Department Level
Venue	Thanam Hall
Total Participants	52
Faculty - Internal	2
Students - Internal	50

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Balasubramanian S	Professor and Head	KPR Institute of Engineering and Technology, Coimbatore	balasubramanian.s@kpriet.ac.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Bharathi Ganesan R	Coordinator

Outcome

Students are motivated to use CFD tools like Comsol, Fluent and openFOAM. Students were also asked to use the high performance computing lab after classes.

Event Summary

The event started with the event coordinator Bharathi Ganesan welcomed the gathered students and introduced about the resource person Dr. S. Balasubramanian, Professor and Head to the gathering. After the introduction, Dr. Balasubramanian started the overview of the lecture and the importance of computational tools in enhancing the job placement skill and value of a Chemical Engineer. Then the difference between fluid statics and dynamics was explained with emphasis on the complexity added due to movement of fluid. The list of equations to solve such as conservation of mass, momentum and energy were also discussed briefly. Applications in the field of mechanical pump design, aerospace, vehicle design, chemical engineering agitators and heat exchanger baffle arrangement were presented. Then various case studies were discussed individually. The case of a freely falling sphere that causes dynamic drag and wake behind it was discussed to highlight their application in packed and fluidized bed catalytic converters. This case was extended to rising bodies that create beautiful patterns as they rise up. For various operating conditions, the patterns were shown as colourful contour images. Then the case of solving heat energy with temperature as a scalar variable was highlighted as an application in the sterilization in food industry. With these cases, the lecture came to an end and the floor was opened for questions. Student Umamaheswari asked about energy balance for drying of calcium carbonate using the computational tools, which was clarified by Dr. Balasubramanian. The lecture came to an end. The series will continue next on DWSIM and openFOAM. Feedback was collected anonymously through online Google forms.



Distinguished
Lecture Series

Exploring Dynamics of
Fluids: Computational
Tools and Techniques
for Chemical Engineers

Dr. S. BALASUBRAMANIAN
Professor, ChemE
KPRIET

Tuesday
21 Mar '23

Thanam Hall
3:00 - 4:00 PM

Event Coordinator
Dr. R. Bharathi Ganesan/AP/Sr/GI ChemE

kpriet.edu.in

f t g /KPRIETonline

[Click to View](#)



[Click to View](#)



[Click to View](#)

008: ALUMNI INTERACTION WITH STUDENTS

Event No	CH024
Organizing Department	Chemical Engineering
Associate Dept. NSC	Chemical Engineering
Date	08/10/2022
Time	11:00 AM to 12:00 PM
Event Type	Alumni Activity
Event Level	Department Level
Venue	III CH classroom
Total Participants	72
Faculty - Internal	2
Students - Internal	70

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Mr A Amalkumar	Management Trainee	Gypmart India Pvt Ltd, kolkata	18ch001@kpriet.ac.in	xxxxxxxxxx
2	Resource Person	Mr K ThamaraiKannan	Management Trainee	Gypmart India Pvt Ltd, kolkata	18ch020@kpriet.ac.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Nakkeeran E	Coordinator

Outcome

This event is organised to develop a positive mindset on how to avoid fear during interviews, how to face the interviewer confidentially, what are the areas to be focussed when attending core company interviews. All the students feel confident after the completion of the function which received through the feedback

Event Summary

Department of Chemical engineering, KPR Institute of Engineering and Technology, Arasur, Coimbatore organised an event named "Alumni Interaction with students" on 08.10.22 at 11 am in III CH classroom. Mr.A.Amalkumar and Mr. K. ThamaraiKannan, students of 2022 batch and working as a management trainee in Gypmart India Pvt. Ltd, Kolkata are the resource persons for the program. Both are successfully completed with good CGPA and presently working in a core company who are highly eligible for this program. Dr. E. Nakkeeran, Associate Professor, Chemical Engineering Department, coordinator of the event welcomed the resource persons and introduced them to the students. He had asked the resource persons to share their ideas, techniques to develop a positive mindset on how to avoid fear during interviews, how to face the interviewer confidentially, what are the areas to be focussed when attending core company interviews etc. Both the persons started the session with an energetic vibration since they both are also students, a year back. They explained clearly and neatly about all the needs of the hour to the students. They gave a confident mindset from the first minute to the end of the session. The session was extremely interactive and provided our students with a better understanding of the expectations of industries from young chemical engineers. The alumni 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.

Some Glimpse of the Session



[Click to View](#)



[Click to View](#)



[Click to View](#)

009: BASICS OF ASPEN PLUS

Event No	CH023
Organizing Department	Chemical Engineering
Date	25/03/2023
Time	09:30 AM to 04:00 AM
Event Type	Workshop
Event Level	Department Level
Venue	LIS Lab
Total Participants	47
Faculty - Internal	5
Faculty - External	2
Students - Internal	5
Students - External	35

Related SDG



Involved Staffs

Sl	Name	Role
1	Arunkumar N	Coordinator

Outcome

Students were able to understand the significance of process design using Aspen simulation

Event Summary

Department of Chemical Engineering as a part of institutional social responsibility activity has organized a workshop on Basics of Aspen Plus exclusively for the students of polytechnic institutions. This event is aimed at providing knowledge for the students in the domain of Computational Chemical Engineering to enhance their skills in using the software tools used. The expected outcome of the programme is to give hands on training on the software and attain skill to meet the industry requirements of the design companies in their field. Students pursuing diploma in Chemical and petrochemical engineering in Kongu vellalar polytechnic college from perundurai has attended the workshop along with a faculty. The workshop was started at around 9.30 am and the coordinator of the event Mr.N.Arunkumar, Assistant Professor (Sr.G) in the department of chemical engineering has welcomed the students and elaborated the importance of the workshop. Dr.R.Bharathi Ganesan, Assistant Professor (Sr.G) in the department of chemical engineering was the resource person of the workshop. Various unit operations in chemical engineering such as distillation column etc were taught using simulation. Hands on training was given to the students by giving them problem and asked them to solve using the simulation tool. Overall the session was very good and students feedback was well received. After the session interaction with the students was arranged in the fluid mechanics laboratory where students cleared their doubts about higher studies in chemical engineering department at KPR Institute of Engineering and Technology, Coimbatore. Mr.Alagusowdeswaran and Mr.Karthik of II year chemical Engineering were the student coordinators of the event.



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

DEPARTMENT OF CHEMICAL ENGINEERING
Organizes
One Day Workshop
On
Basics Of Aspen Plus
(For Polytechnic Students)

DATE : 25.03.2023
TIME : 09.30am TO 04.00pm
VENUE : LIS Lab, Admin Block.

FACULTY COORDINATORS:
Mr. N. Arunkumar, AP(Sr.G) / ChemE
Dr. S. Karunakaran, AsP / ChemE

STUDENT COORDINATORS:
Mr. M. Alagu Sowdeswaran (7708192579)
Mr. K. Karthick (7339215376)

Great Place To Work Certified
FREE REGISTRATION
For Registration Scan Here

[Click to View](#)



[Click to View](#)



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

Department of Chemical Engineering
Organizes One Day Workshop on
BASICS OF ASPEN PLUS
(For Polytechnic Students)

RESOURCE PERSON


Dr. R. Bharathi Ganesan
Assistant Professor (S1, Gr)
Department of Chemical Engineering
KPR Institute of Engineering and Technology

Learning and Intelligence System Lab, Admin Block
25.03.2023
9.30 AM to 4.00 PM

Faculty Coordinator(s)
Mr. N. Arunkumar, Ap (Sr.Gr) / CH
Dr. S. Karunakaran, AsP/ CH

Student Coordinator(s)
Mr. M. Alagu Sowdeswaran, II CH
Mr. K. Karthick, II CH

kpriet.edu.in

[Click to View](#)

010: WORLD WATER DAY 2023

Event No	CH022
Organizing Department	Chemical Engineering
Associate Dept. NSC	Civil Engineering
Date	23/03/2023
Time	09:30 AM to 04:15 AM
Event Type	Celebration
Event Level	College Level (KPRIET Common)
Venue	Raagam Hall
Total Participants	220
Faculty - Internal	20
Students - Internal	200

Related SDG



Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Chief Guest	R S Krishnaswamy	Convener, Water watch	Siruthuli	sparkcbe@gmail.com	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	HOD_CHEMICAL	Convenor
2	HOD_CIVIL	Convenor
3	Nakkeeran E	Convenor

Outcome


To create an awareness in the minds of younger generation on water usage, importance etc.
To inform the latest developments in the water conservation and management and wastewater management areas

Event Summary

Department of Chemical Engineering and Department of Civil Engineering jointly organised World Water Day celebration on 23.3.23 at KPR Institute of Engineering and Technology, Arasur, Coimbatore. The real aim and outcome of the event is a) To create an awareness in the minds of younger generation on water usage, importance etc.

b) To inform the latest developments in the water conservation and management and wastewater management areas. Dr. S. Balasubramanian, HoD/Chemical, Dr. G. Anusha, HoD/Civil and Dr. E. Nakkeeran, Associate Professor, Chemical Engineering are the convenors of the event. For the Inaugural function, Mr. R. S. Krishnasamy, Convenor, Water Watch, Siruthuli was the chief guest and had delivered a guest lecture about the water bodies in coimbatore, how it looks in the past, how it is at present and what are the plans to preserve it for the future generations. Everything he discussed in a very neat and efficient manner for the benefit of students . The students are also overwhelmed on his presentation. Dr. M. AKila , Principal, KPR Institute of Engineering and Technology, Arasur, Coimbatore gave away the presidential address in which he highlighted about the importance of water and how to use it in scarcity times. Various events were conducted during the event such as essay writing, art competition, quiz competition, poster competition, plant design competition, field trip, short film competition, film screening on the importance of water. Valedictory function was conducted in the evening in which Dr. R. Ilangovan, Former Chief Engineer, PWD, Water resource department, Tamilnadu was the chief guest . He also given a guest lecture on the

water management and also given away the prizes for the various competition winners. The event successfully ended with a happy note.



The poster features logos for KPR Institute of Engineering and Technology, G20 India 2023, and Great Place to Work Certified. It lists the organizing departments and a series of events including poster presentations, quizzes, lectures, film screenings, field trips, and competitions. At the bottom, it includes icons for Sustainable Development Goals 6, 12, 13, 14, and 16, along with social media links for KPRIET.

[Click to View](#)



[Click to View](#)



[Click to View](#)

011: ALUMNI TALK

Event No	CH021
Organizing Department	Chemical Engineering
Associate Dept. NSC	Indian Institute of Chemical Engineers
Date	02/03/2023
Time	11:15 AM to 12:30 PM
Event Type	Alumni Activity
Event Level	Department Level
Venue	III CH classroom
Total Participants	55
Faculty - Internal	5
Students - Internal	50

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Mr K Sivabalasudhan	Graduate Process Engineer Trainee	Kavin Engineering Services (P) limited	18ch002@kpriet.ac.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Nakkeeran E	Coordinator

Outcome

1. Students learnt how to face the interview
2. students learnt how to prepare for the interview
3. students learnt the key areas in getting core placement

Event Summary

Department of Chemical Engineering, KPR Institute of Engineering and technology, located in Arasur, Coimbatore organised an alumni talk on "successful tips to get core placement" on 02.03.2023 in III year chemical engineering classroom for the benefit of final and third year chemical engineering students in attaining ideas to get core placement successfully. Mr. K. Sivabalasudhan, student who belong to Class 2022 batch and presently working in Kavin engineering services (P) limited, located in coimbatore. He was a topper of the mentioned batch with full credentials. Since he got good CGPA and had good knowledge in the core area, we thought he is the best choice for this Alumni talk. Dr. E. Nakkeeran, Associate professor, Department of Chemical Engineering, KPR Institute of Engineering and technology, Arasur, Coimbatore was the Coordinator of the event. Dr. G. Surendran, Associate professor, Department of Chemical Engineering, KPR Institute of Engineering and technology, Arasur, Coimbatore was the Co-coordinator of the event. Dr. E. Nakkeeran, Coordinator of the event welcomed the resource person and introduced him to the students in a very nice manner and asked the resource person to take over the session. Mr. K. Sivabalasudhan , being an alumni mingled with the students easily and interacted nicely . He clearly explained all the areas in the way all the students got enlightened in how to face the interview without any fear. He taught how to avoid fear during interviews, what are all the core areas to get familiar, what type of questions will be asked, what way students has to answer etc. also he taught how to involve in group discussions and how to face the personal interview etc. Overall, the session was an interactive one and the students have given a good feedback on the event. Coordinator again thanked the resource person for his nice session and asked the cocordinator to give away a small memento to the resource person as a token of gesture.



[Click to View](#)



[Click to View](#)



[Click to View](#)

012: DEVELOPMENT OF ANIMATION AS A TOOL FOR LEARNING CHEMICAL ENGINEERING PRINCIPLES

Event No	CH020
Organizing Department	Chemical Engineering
Date	02/08/2022
Time	03:00 PM to 04:00 PM
Event Type	Seminar
Event Level	Department Level
Venue	Veena Hall
Total Participants	155
Faculty - Internal	5
Students - Internal	150

Related SDG



Involved Staffs

SI	Name	Role
1	Murugesan K	Coordinator
2	Balasubramanian S	Convenor

Outcome

Students able to get knowledge about MAAC animation which is used in chemical engineering.

Event Summary

A report on - MAAC Orientation Program, 'Development of Animation as a Tool for Learning Chemical Engineering Principles' Department of Chemical Engineering and Maya Academy of Advanced Cinematics jointly organized an orientation program on "Development of Animation as a Tool for Learning Chemical Engineering Principles".

Chemical engineering plays a major role in our day-to-day life experience. Unit operations and unit process are two major classification in chemical engineering. Using these principles, chemical plant and equipment design can be done. We need software tools for easy design of equipment and plant. MAAC tool helps us to do the same. So we organized the orientation program for our chemical engineering students. MAAC tool is basically animation tool. Many other tools like, Aspen HYSIS, Xchanger Suite, CHEMCAD etc are available. MAAC also helps to animate the process.

150 students have attended the program held at veena hall. Mr. K S Dandapani Centre Head, MAAC Arasur, KPR Institute of Engineering and Technology (KPRIET), Coimbatore, presented his talk and inspired the students on the use of animation as a powerful tool in Chemical Engineering. Senior professors and faculty members have attended the program. At the end of the session, Mr. K S Dandapani interacted with the students and faculty members, and cleared their doubts in animation and how the animation as a tool helps us in learning chemical engineering principles. It was very useful and interacting session for students and faculty members. Finally, Students able to get knowledge about MAAC animation which is used in chemical engineering.



The poster features logos for KPR Institute of Engineering and Technology, MAAC (Maya Academy of Advanced Cinematics), and KPRIET. It announces an orientation program on "Development of Animation as a Tool for Learning Chemical Engineering Principles" organized by the Department of Chemical Engineering in association with MAAC. The speaker is Mr. K S Dandapani, Centre Head of MAAC Arasur, KPRIET, Coimbatore. The event is scheduled for 02, August, 2022, at 3.00 PM in Veena Hall. The convenor is Mr. K. Murugesan, AP (Sr.G) / CH, and coordinators are Ms. R. Harshitha, II CH and Mr. R. Vignesh, II CH. The poster also includes social media links for kpriet.ac.in and /KPRIETonline, and a "Great Place To Work" and "Certified" badge.

[Click to View](#)



[Click to View](#)



[Click to View](#)

013: DATA SCIENCE IN CHEME

Event No	CH019
Organizing Department	Chemical Engineering
Date	21/02/2023
Time	02:00 PM to 04:00 PM
Event Type	Guest Lecture
Event Level	Department Level
Venue	Thanam Hall
Total Participants	184
Faculty - Internal	13
Students - Internal	171

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Dr M Ramasamy	Strategic Advisor	KPRIET	ramasamy.m@kpriet.ac.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Umapriya R	Convenor
2	Balasubramanian S	Convenor

Outcome

"Data Science in Chemical Engineering", an event focused on this topic could have potentially had several outcomes. These includes:

Increased awareness: The event could have helped raise awareness among participants about the potential applications of data science in chemical engineering, and how it can help solve complex problems in the field.

Knowledge sharing: The event have provided an opportunity for participants to share knowledge and experiences, and to learn about new techniques and tools that are being used in the field.

Collaboration: The event have fostered collaboration among participants, leading to new research collaborations or partnerships between industry and academia.

Insights and ideas: The event have generated new insights and ideas about how to approach specific chemical engineering problems using data science, and may have inspired participants to explore new research directions.

Networking: The event have provided an opportunity for participants to network with peers, potential collaborators, and industry professionals, and to learn about career opportunities in the field.

Overall, the actual outcome of an event focused on Data Science in Chemical Engineering would depend on the specific goals and objectives of the event, as well as the interests and backgrounds of the participants.

Event Summary

The Chemical Engineering department of KPRIET recently organized an event on the topic of "Data Science in Chemical Engineering". The event was aimed at exploring the intersection of data science and chemical engineering and understanding how data science techniques can be used to solve complex problems in the field.

The event was attended by a diverse group of participants, including students, faculty members, and industry professionals. The event featured a series of presentations, panel discussions, and networking opportunities, and covered a wide range of topics related to data

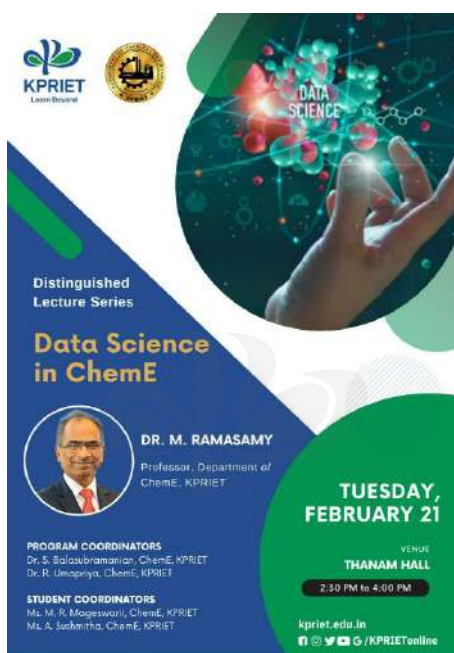
science in chemical engineering.

The event began with an introduction to data science and its applications in chemical engineering. The speakers highlighted the potential benefits of data science techniques, such as machine learning, data mining, and optimization, in improving the efficiency and safety of chemical processes. They also emphasized the importance of data quality and the need for effective data management practices in order to successfully implement data science in chemical engineering.

The event also featured a panel discussion on the challenges and opportunities of data science in chemical engineering. The panelists discussed the importance of interdisciplinary collaboration and the need to develop new skills and knowledge to effectively apply data science techniques in chemical engineering. They also highlighted the potential ethical and legal issues associated with the use of data in chemical engineering and emphasized the need for responsible data management practices.

Throughout the event, there were several opportunities for participants to network and exchange ideas. Participants were able to share their experiences and insights, and to learn from each other's perspectives. The event provided an excellent opportunity for participants to gain a better understanding of the potential applications of data science in chemical engineering and to explore new research directions.

Overall, the "Data Science in Chemical Engineering" event at KPRIET was a success, providing a platform for knowledge sharing, collaboration, and networking among participants. The event highlighted the importance of data science in chemical engineering and the potential benefits it can bring to the industry. It also emphasized the need for responsible data management practices and the importance of interdisciplinary collaboration in successfully implementing data science in chemical engineering.



[Click to View](#)



[Click to View](#)



[Click to View](#)

014: PAPER PRESENTATION

Event No	CH018
Organizing Department	Chemical Engineering
Associate Dept. NSC	Chemical Engineering
Date	16/02/2023
Time	10:00 AM to 01:00 PM
Event Type	Celebration
Event Level	Department Level
Venue	II CHEMICAL CLASS ROOM
Total Participants	45
Faculty - Internal	5
Students - Internal	10
Students - External	30

Related SDG



Involved Staffs

SI	Name	Role
1	Nakkeeran E	Coordinator

Outcome

All students got benefitted out of the event in learning ideas, creative thoughts,, presenting projects students benefit is the only expected outcome which got acheived without any delay

Event Summary

FIESTA is a college level cultural fest organised in KPR instiute of engineering and technology located in Arasur, Coimbatore by every February. In this event, various department level competitions related to curriculum, co curriculum and extra curriculum will be organised. students within the college and outside the college will get participate and enjoy the occasion. The winners will be awarded the prizes and certificates on that day immediately after the function. In this, this paper presentation contest is opened for students from other colleges to participate and show their presentation and knowledge ability on the subject. students from various private engineering colleges, autonomous colleges presented various papers in several areas like wastewater treatment, remedial technologies, phyto remediation technologies, chemical process intensification, chemical process industries, manufacturing and production technologies advancements, various other emerging technolgies etc. All the students from various colleges presented nicely . even the first year students also presented nicely without any stage fear. all the students faced the audiences fearlessly and answered the audience questions nicely with lot of confidence and energetic thinking . Evaluation on the presentation was also carried out by the judges without any bias and the winners got selected purely on merit basis. all the winners got awarded with certificates, cash prizes . feedback from the students were also nicely received and they expressed satisfaction about the conduction of the event, hospitality of the event, evaluation methodologies etc. Finally all the students went off with flying colours and with full satisfaction personally and went off in a nice mood.



[Click to View](#)



[Click to View](#)



[Click to View](#)

015: TECHNICAL QUIZ (FIESTAA'23)

Event No	CH017
Organizing Department	Chemical Engineering
Date	17/02/2023
Time	10:00 AM to 12:00 PM
Event Type	Quiz
Event Level	National Level
Venue	III CH - Classroom
Total Participants	21
Students - External	21

Related SDG



Involved Staffs

Sl	Name	Role
1	Murugesan K	Coordinator
2	Karunakaran S	Convenor

Outcome

Technical quiz was conducted successfully. Outside participants are able to check their technical knowledge and we have good outreach among other colleges by conducting this type of technical events.

Event Summary

FIESTAA '23 - Biggest Techno Cultural Fest. The two-day techno-cultural festival FIESTAA '23, which will be held on February 16 and 17, 2023, is intended to break down barriers between cultures and to inspire creative thinking. It is organized by KPR Institutions and will feature a variety of workshops, games, challenges, competitions, and non-technical clashes. For this techno-cultural event, more than 15,000 beginning students from throughout India are anticipated. The festival is scheduled to be illuminated by a number of renowned social media stars, motivational speakers, stand-up comedians, and famous business leaders. Different Engineering departments organize both technical and non-technical events. From chemical engineering department, many events are going to be conducted, the one is 'Technical Quiz'.

On behalf of chemical engineering department like project presentation, paper presentation, technical quiz, DWSIM workshop, Brain teasers etc. Technical quiz conducted by enthusiastic chemical engineering student members and coordinated by faculty Mr. K. Murugesan. There are 21 external participants from various colleges attended the technical quiz event. The participant can participate as team members and max of three per team as rule. Totally 9 teams participated. First round, set of questions given and they have to answer within the given time. From the first round, selected teams can attend the second round. Second round, set of questions given and they have to answer within the given time. From the second round, one winner and one runner up selected and prize awarded with certificate by Mr. K. Murugesan and Dr. P. Lineesh. Other faculty members supported well. Certificate provided to all the participants.



[Click to View](#)



[Click to View](#)



[Click to View](#)

016: DWSIM SIMULATION

Event No	CH016
Organizing Department	Chemical Engineering
Date	16/02/2023
Time	11:00 AM to 12:00 PM
Event Type	Workshop
Event Level	Inter-College Level
Venue	Learning and Intelligent Systems Lab
Total Participants	20
Students - External	20

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Bharathi Ganesan R	Assistant Professor (Sr.G)	KPRIET	bharathiganesan.r@kpriet.ac.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Karunakaran S	Coordinator
2	Bharathi Ganesan R	Convenor

Outcome

Students of Paavai and Kongu Engineering College had hands on training on DWSIM. They were impressed and some are ready to attend 1 day workshop.

Event Summary

The event started at 11:45 AM due to overlap with paper presentation event. Dr. R. Bharathi Ganesan welcomed the students and inquired about the engineering stream of the students. All were 3rd and 4th year Chemical Engineering students of other Colleges. The resource person started by explaining what a chemical process simulator is and differentiated DWSIM from Aspen Plus viz. ease of availability to students. He explained how DWSIM was started by Daniel Wagner Madeiros in 2008 as a opensource software. He then listed what can be done in DWSIM to learn or do research and how dwsim is unique and relevant to chemical engineering students. Then he listed the basic steps involved in solving a problem using dwsim, showed the interface of dwsim and the basic classification of thermodynamic packages provided in dwsim. He also provided directions towards self learning of this software through spoken tutorial of IIT Bombay and Dr. P R Naren of Sastra University. By discussing the limitations of dwsim in handling polymers, solids, composite materials and biomass, the introduction session was over. Then a hands on solving of a chemical reaction problem was demonstrated by Student Coordinator Gowtheeswaran / CH III using Gibbs reactor. This part covered the entry of all compounds involved in the wizard, choosing an apt thermodynamic / property package, choice of system of units and defining the element matrix for the Gibbs reactor. He solved the problem and discussed about the results. Then Student Coordinator Vasanth P / CH III demonstrated the same problem using Conversion reactor by defining a new conversion reaction. Both the results were compared and the correct conversion was determined. It was ensured that all the Students solved both the problems. A brief result of dynamic simulation of water level in a tank was demonstrated by Dr. R. Bharathi Ganesan. With this the event concluded and many participants entered their anonymous feedback online in Google Forms itself. The participants collected their certificates and left to attend other Fiesta events.



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

FESTAA '23
WORKSHOP
on
DWSIM Simulation

Resource Person:
Dr. Bharathi Ganesan R,
AP (Sr.G)/CHEMICAL DEPT.
KPRIET

25 SEATS only
scan to register
11 AM to 12 noon

16 Feb 2023, LIS LAB

Student Coordinators:
Vasanth P / CH III - 96559 93928
Gowtheeswaran S / CH III - 85080 48846

kpriet.edu.in

[Click to View](#)



[Click to View](#)



[Click to View](#)

017: CHEM CONNECT

Event No	CH015
Organizing Department	Chemical Engineering
Associate Dept. NSC	Indian Institute of Chemical Engineers
Date	17/02/2023
Time	10:00 AM to 12:00 PM
Event Type	Competition
Event Level	National Level
Venue	II CH Classroom
Total Participants	30
Students - Internal	10
Students - External	20

Related SDG



Involved Staffs

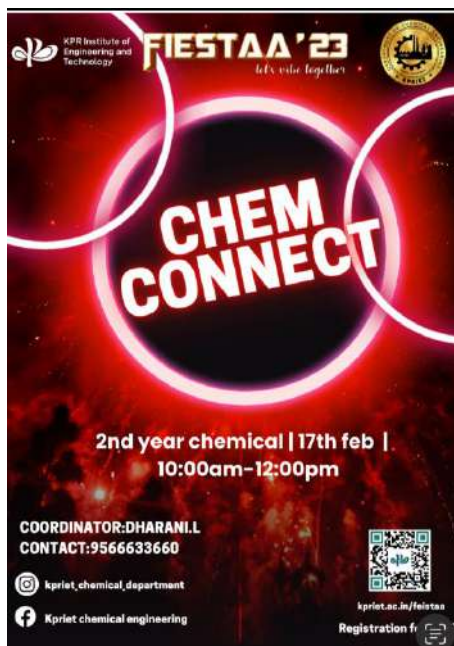
SI	Name	Role
1	Dharani L	Convenor

Outcome

The ChemConnect event was a great success, with both students from inside and outside the college participating eagerly. The event was filled with enthusiasm, curiosity, and fun, as everyone strived to identify the words hidden within the images. Everyone had a great time and learned a lot in the process.

Event Summary

The Department of Chemical Engineering, KPR Institute of Engineering and Technology organized CHEMCONNECT as a part of FIESTA 23. The ChemConnect event was a great success, with 10 internal and 20 external participants participating enthusiastically. The event was conducted in two rounds: those who achieved the best results in the first round were allowed to enter the second round. Out of the 15 teams that participated, 5 made it to the second round, and two winners were chosen. The first-place winner was awarded a cash prize of 1,000 Rs, along with a medal and certificate. The second-place winner earned 500 Rs, in addition to a medal and certificate. All participants left with an enhanced knowledge and understanding of chemistry, having developed their problem-solving and analytical skills throughout the course of the competition. The ChemConnect event was overall a highly enjoyable and educational experience for everyone involved. It showcased great teamwork and collaboration from both internal and external participants, and provided an opportunity to test and develop their chemistry knowledge and skills. The event was deemed a great success, with everyone enjoying the chance to work together to uncover the hidden words in the images. Special congratulations to the first and second place winners, who were awarded cash prizes, medals, and certificates. We hope that the participants of ChemConnect have taken away something valuable from the event. Through their collaboration, knowledge sharing, and creativity, the participants demonstrated their commitment to studying the subject of chemistry and their drive to constantly improve their skills in this area. It was a pleasure hosting this event and we look forward to bringing many more such activities in the future.



[Click to View](#)



[Click to View](#)



[Click to View](#)

018: HIDDEN HEALTH PROFILE OF MILLETS

Event No	CH014
Organizing Department	Chemical Engineering
Date	11/01/2023
Time	02:00 PM to 04:00 PM
Event Type	Expert Talk
Event Level	Department Level
Venue	Veena Hall
Total Participants	210
Faculty - Internal	25
Students - Internal	185

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Mrs Saraswathy Eswaran	Retired Professor, TNAU, CBE	Ramasamy Chinnammal Trust	saraswathyeswaran1946@gmail.com	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Umapriya R	Convenor
2	Dharani L	Convenor

Outcome

The outcomes of the Chemical Department of KPRIET's event on the "Hidden Health Profile of Millets" could include:

- Increased awareness about the health benefits of millets and their nutritional value.
- Improved understanding of the different types of millets and how to incorporate them into a healthy diet.
- Exposure to new recipes and cooking techniques for preparing millets in various forms.
- Increased interest in consuming millets as a healthier alternative to traditional staple foods.
- Improved knowledge about the health benefits of millets and how they can contribute to overall wellness.
- A sense of community and support for those who are interested in healthy eating and lifestyle choices.
- Opportunities to network and connect with others who are interested in millets and health.

Overall, the event was designed to provide attendees with the information and resources they need to make informed choices about their food and improve their overall health. The outcomes reflect this goal, providing attendees with the knowledge and motivation they need to adopt a healthier lifestyle.

Event Summary

The Chemical Department of KPRIET recently hosted an event on the "Hidden Health Profile of Millets." The event was aimed at raising awareness about the health benefits of millets and how they can play a crucial role in maintaining a healthy lifestyle. The event was a huge success, attracting a large number of attendees from various backgrounds and walks of life. The event started with a keynote speech from an expert in nutrition, who spoke about the nutritional value of millets and their various health benefits. This was followed by a series of interactive sessions, demonstrations, and workshops, which provided hands-on experience and practical knowledge on the preparation of millets in various forms. Attendees had the opportunity to sample different dishes made from millets and gain an understanding of the versatility of this superfood.

One of the highlights of the event was a panel discussion featuring experts in the field of nutrition and health, who shared their experiences and insights on the benefits of millets. This provided a valuable opportunity for attendees to gain a deeper understanding of the topic and ask questions.

In addition to the formal sessions, the event also provided a space for networking and connecting with others who are interested in millets and health. Attendees had the chance to engage in conversations, exchange ideas, and form new relationships.

The feedback from the attendees was overwhelmingly positive, with many reporting that the event had provided them with the information and resources they needed to improve their diets and overall health. Several attendees also expressed their appreciation for the supportive and empowering atmosphere at the event, saying that it had given them the confidence to make healthier choices.

Overall, the Chemical Department of KPRIET's event on the "Hidden Health Profile of Millets" was a huge success, delivering on its goal of raising awareness about the health benefits of millets. The event provided valuable insights, practical knowledge, and a supportive community, and it is clear that it had a significant impact on the lives of those who attended.



[Click to View](#)



[Click to View](#)



[Click to View](#)

019: ALUMNI SERIES - I

Event No	CH013
Organizing Department	Chemical Engineering
Associate Dept. NSC	Chemical Engineering
Date	29/08/2022
Time	02:00 PM to 03:00 PM
Event Type	Webinar
Event Level	Department Level
Meeting Medium	
Meeting Link	https://meet.google.com/vbb-jndj-zqt
Total Participants	75
Faculty - Internal	10
Students - Internal	65

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Dr A Balasubramanian	Associate Professor	Saveetha Engineering College	balasubramaniana@saveetha.ac.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Nakkeeran E	Convenor

Outcome

Students benefitted out of this webinar by showing their interest and by asking more interesting questions through which they gained their knowledge in this area to a larger extent.

Event Summary

Department of Chemical Engineering, KPR Institute of Engineering and Technology organised a webinar on Biomass from waste as a part of Alumni series I on August 29, 2022 between 2-3pm for the benefit of students. A total of 75 participants attended the program. Resource person for the programme is Dr. A. Balasubramanian, Associate Professor, Chemical Engineering Department, Saveetha Engineering College, Chennai. Dr. E. Nakkeeran, Associate Professor, Chemical Engineering Department, KPRIET was the convenor of the event. He welcomed all the students and introduced the Resource person to the students. Resource person started his lecture from the definition of biomass and waste and also highlighted the same with salient features. He emphasized that biomass has the potential to add colossal value to practically everything and anything, it doesn't always have to be of monetary value which is why it plays such an important role in engineering, which can strengthen market uptake of raw materials solutions and build a bigger platform for a greener future. He urged students that in this constantly advancing world, engineers need to constantly improve and innovate ideas in order to continue this advancement. This webinar aimed in bringing awareness on how to convert waste into an useful product for the betterment of society and the common man. All the year students got benefit out of this which attracted their mind to become a successful businessman and entrepreneur accordingly. Students get themselves interacted nicely with the resource person by asking highly interesting questions and got cleared their doubts. Mr. A. Suganraj, II year student, proposed the vote of thanks for the event.



[Click to View](#)



[Click to View](#)



[Click to View](#)

020: "CAVITATION ASSISTED INTENSIFICATION OF OIL IN WATER EMULSIFICATION PROCESS.

Event No	CH012
Organizing Department	Chemical Engineering
Associate Dept. NSC	Chemical Engineering
Date	17/08/2022
Time	03:00 PM to 04:00 PM
Event Type	Webinar
Event Level	Department Level
Meeting Medium	
Meeting Link	http://meet.google.com/ois-qmcr-uid
Total Participants	164
Faculty - Internal	14
Students - Internal	150

Related SDG



Involved Staffs

SI	Name	Role
1	Nitu Kumari	Convenor

Outcome


Students came to gain informative knowledge about Cavitation assisted intensification of oil in water emulsification process

Event Summary

Department of Chemical Engineering at KPR Institute of Engineering and Technology, Coimbatore has organized a guest lecture on "Cavitation assisted intensification of oil in water emulsification process" on 17.08.2022, 15.00 PM - 16.00 PM through online mode. Dr. Jitendra Carpenter, Assistant Professor, Manipal Institute of Technology, Manipal (Karnataka), was the speaker of the invited talk. Use of liquid fuel has forced mankind to process and use heavy and ultraheavy oil to produce special chemicals and dispose oil industry waste. Existing conventional processing technologies are unable to economically process ultraheavy oil stock without contaminating the environment. Technologies based on ultrasonic or hydrodynamic cavitation effects could be among the breakthrough technologies to address the challenges of oil production and refining.

The integrated effect on homogeneous and hetero-phase liquids that can be used for technological purposes has drawn the attention of students in this talk. Cavitation impact on oil is among the efficient methods of intensifying chemical–technological, hydromechanical, and mass-exchange processes and the destruction of substances. This speaker explained in detail and analyzes the mechanisms of impact and application of cavitation in various processes in the petroleum industry, including the refining processes, that are associated with crude oil and petroleum waste, such as reduction of viscosity, demulsification, desulfurization, and improvement of quality of heavy oil and petroleum refinery products, including oil sludge and waste oil-containing water.

There were around 100+ participants including faculty members and students. The session was very interesting and interactive. Mr. Vasanth has proposed welcome address and brief introduction and Ms. Parvatha Varthini of third year has proposed a vote of thanks.



Department of Chemical Engineering
Organizes a Webinar on
"Cavitation Assisted Intensification of Oil in Water Emulsification Process"

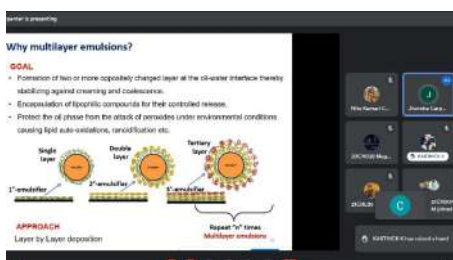
Resource Person
Dr. Jitendra Carpenter
Assistant Professor
Manipal Institute of Technology,
Manipal, Karnataka

Join Us: <http://meet.google.com/ois-qmcr-uid>
OR
+1 413-251-2089 & PIN : 102 721 678#

Convenor: Dr. Nitu Kumari, AP (Sr.G) / CH
Coordinators: Ms. G K, Parvathavarthini, III CH; Mr. P. Vasanth, III CH
Date: 17. August, 2022
Time: 3.00 PM

kpriet.ac.in

Click to View



Why multilayer emulsions?

GOAL

- Formation of two or more oppositely charged layer at the oil-water interface benefits stabilizing against coagulation and coalescence.
- Encapsulation of lipophilic compounds for their controlled release.
- Protect the oil phase from the attack of peroxides under environmental conditions causing lipid auto-oxidations, rancidification etc.

Single layer, Double layer, Tertiary layer

APPROACH: Layer by Layer deposition

Click to View



Effect of Ultrasonication

Effect of cavitation time on stability of SE

Ultrasonication improved the physical stability of SE for 21 days

BUT

Excessive cavitation (beyond 90 sec) affects the oxidative stability of SE

Effect of cavitation time on PV of pure oil, 10 and 20

Click to View

021: GUEST LECTURE ON "REACTIVE DISTILLATION AND IT'S INDUSTRIAL APPLICATION".

Event No	CH011
Organizing Department	Chemical Engineering
Associate Dept. NSC	Chemical Engineering
Date	10/08/2022
Time	03:00 PM to 04:00 PM
Event Type	Expert Talk
Event Level	Department Level
Venue	Classroom
Meeting Medium	
Meeting Link	http://meet.google.com/ois-qmcr-uid
Total Participants	164
Faculty - Internal	14
Students - Internal	150

Related SDG



Involved Staffs

SI	Name	Role
1	Nitu Kumari	Convenor

Outcome

Informative to the students and can be used to understand mass transfer.

Event Summary

Reactive distillation is a process where the chemical reactor is also the still. Separation of the product from the reaction mixture does not need a separate distillation step which saves energy (for heating) and materials. This technique can be useful for equilibrium-limited reactions such as esterification and ester hydrolysis reactions. Conversion can be increased beyond what is expected by the equilibrium due to the continuous removal of reaction products from the reactive zone. This approach can also reduce capital and investment costs. The conditions in the reactive column are suboptimal both as a chemical reactor and as a distillation column, since the reactive column combines these. The introduction of an in-situ separation process in the reaction zone or vice versa leads to complex interactions between vapor-liquid equilibrium, mass transfer rates, diffusion and chemical kinetics, which poses a great challenge for design and synthesis of these systems. Side reactors, where a separate column feeds a reactor and vice versa, are better for some reactions, if the optimal conditions of distillation and reaction differ too much.

Department of Chemical Engineering at KPR Institute of Engineering and Technology, Coimbatore has organized a guest lecture on "Reactive distillation and it's industrial application" on 10.08.2022, 15.00 PM - 16.00 PM through online mode. Dr. Swapnil Adsul, Assistant Professor, P.P. Savani university, Surat (Gujarat), was the speaker of the invited talk. There were around 100+ participants including faculty members and students. The session was very interesting and interactive. Mr. Antony Roshan has given the welcome address and brief introduction and Ms. Kavika of third year has proposed a vote of thanks.



Department of Chemical Engineering
Organizes a Guest Lecture on
"Reactive Distillation and its Industrial Application"

Resource Person

Dr. Swapnil Adsul
Assistant Professor
P. P. Savani University, Surat, Gujarat

Join Us: <http://meet.google.com/ois-qmcr-uid>
OR
+1 413-251-2089 & PIN : 102 721 678#

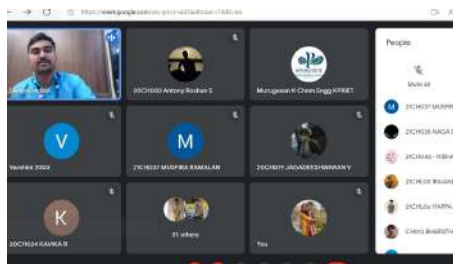
Convenor: **Dr. Nitu Kumari**
AP (Sr.G) / CH

Coordinators: **Ms. R. Kavika, III CH**
Mr. S. Antony Roshan, III CH

Date: **10, August, 2022**
Time: **3.00 PM**

www.kpriet.ac.in / www.chemical-engineering.org
kprietary.ac.in

Click to View



Click to View



Click to View

022: RECENT ADVANCEMENTS IN WATER TREATMENT-RAWT 2022

Event No	CH010
Organizing Department	Chemical Engineering
Date	17/10/2022 to 21/10/2022 (5 Days)
Time	09:30 AM to 01:00 PM
Event Type	FDP
Event Level	National Level
Meeting Medium	
Meeting Link	https://us06web.zoom.us/j/87681171964?pwd=Y0krNUYwRkNYdURMTkxuUm9meXpxZz09
Registration Link	https://bit.ly/RAWt2022
Total Participants	82
Faculty - Internal	1
Faculty - External	67
Other Participants	14

Related SDG



Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Dr S Vasudevan	Chief Scientist & Professor	Electroinorganic Chemicals Division CSIR-CECRI Karaikudi, Tamil Nadu	vasudevan65@gmail.com	xxxxxxxxxx
2	Resource Person	Dr G Venkatesan	Scientist F	National Institute of Ocean Technology Chennai, Tamil Nadu	gvenkat@niot.res.in	xxxxxxxxxx
3	Resource Person	Dr Ashish Kapoor	Professor	Department of ChemE Harcourt Butler Technical University Kanpur, Uttar Pradesh	ashishk@hbtu.ac.in	xxxxxxxxxx
4	Resource Person	Dr G Arthanareeswaran	Professor	Department of ChemE NIT- Trichy Tamil Nadu	arthanareeg@nitt.edu	xxxxxxxxxx
5	Resource Person	Dr N Viswanathan	Senior Assistant Professor	Department of Chemistry Anna University UCE-Dindigul Tamil Nadu	drnviswanathan@gmail.com	xxxxxxxxxx
6	Resource Person	Dr S Meenakshi	Director (R&D;) & Professor	Department of Chemistry The Gandhigram Rural Institute DU Dindigul, Tamil Nadu	drsmeenakshi@gmail.com	xxxxxxxxxx
7	Resource Person	Dr R Nagaraj	Scientific Officer G	NDDP Baba Atomic Research Centre Kalpakkam, Tamil Nadu	rnagaraj@igcar.gov.in	xxxxxxxxxx

SI	Type	Name	Designation	Company	Email	Phone
8	Resource Person	Dr G Anusha	Professor & Head	Department of Civil Engineering KPRIET Coimbatore, Tamil Nadu	anusha.g@kpriet.ac.in	xxxxxxxxxx
9	Resource Person	Dr R Mathava Kumar	Associate Professor	Department of Civil Engineering IIT-Madras Chennai, Tamil Nadu	mathav@civil.iitm.ac.in	xxxxxxxxxx
10	Resource Person	Dr E Poonguzhali	Assistant Professor	SRMIST Kattankulathur Chengalpattu, Tamil Nadu	poonguze@srmist.edu.in	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Balasubramanian S	Convenor
2	Sowmya A	Convenor

Outcome

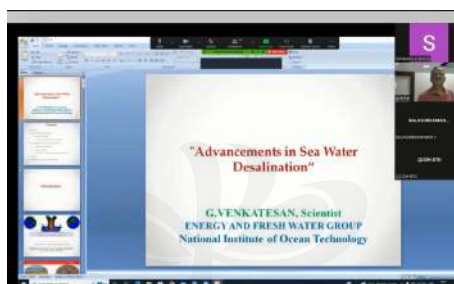
The FDP on RAWt 2022 had fruitful discussions and knowledge sharing on various water treatment technologies. Recent advancements in various water treatment technologies like membrane technologies, biological nutrient removal, photocatalytic degradation, electrochemical techniques, adsorption and so on was presented by the legendary scientists. In depth knowledge on off-shore desalination, bioremediation of the lakes and lab-on a-chip device was also shared by the eminent scientists.

Event Summary

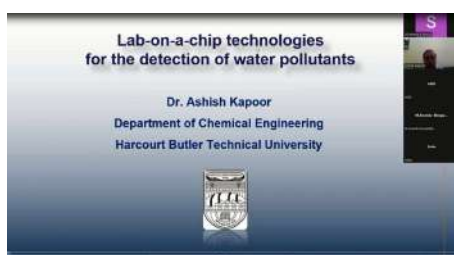
Day 1 : On 17.10.2022 at 10.00 AM, **FDP on Recent Advancements in Water Treatment-RAWt-2022** organized by ChemE, KPRIET in association with Indian Desalination Association-South Zone started with welcome speech by Dr.S.Balasubramanian, Head of the Department of ChemE. Dr.A. Sowmya, Convener of the FDP mentioned about the the significance of this workshop. We had total of 82 participants from reputed organizations all over India and two participants from Oman. Dr.G. Venkatesan, Scientist F from NIOT has delivered talk on “Offshore Desalination Technologies”at 10.30 am. The resource person has shared the insights on various Low Temperature Thermal Desalination Plants developed and implemented by National Institute of Ocean Technology at various Islands of India. The second talk was on Electrochemical Processes for Purification of Water Contaminants by Dr. S. Vasudevan, Chief Scientist & Professor from CECRI-Karaikudi which was really an outstanding session on the same. On Day 2 we had two expert talk on Lab-on-a-Chip Technologies and Hybrid Nanocomposites by Dr. Ashish Kapoor, Professor from HBTU- Kanpur and Dr. G. Arthanareeswaran, Professor from NIT-Trichy. Talk on Metal-Organic Frameworks and Bio-ozolyte Process were delivered by Dr. N. Viswanathan, Senior Assistant Professor from Anna University (Dindigul Campus) and Dr. G. Anusha, Professor& Head of the Department of Civil Engineering, KPRIET on the third day. Dr. S. Meenakshi, Director- R&D from The Gandhigram Rural Institute- DU and Dr. S. Mathava Kumar from IIT-Madras were the resource persons for fourth day and they have shared insights on Photocatalytic Water Treatment and Biological Nutrient Removal. On Day 5 we had talk on Hybric Renewable Power System for Desalination by Dr. R. Nagaraj, Scientific Officer G, BARC, Kalpakkam and talk on Current Advances in Membrane Technologies by Dr. E. Poonguzhali, Assistant Professor of Chemical Engineering, SRMIST. All the sessions were very interesting and informative which is reflected through participants interaction and feedback. Valedictory Session was held on 21 Oct, 2022 at 12.30 PM in which the convener concluded on the FDP- RAWt-2022



[Click to View](#)



[Click to View](#)



[Click to View](#)

023: ENGINEER'S DAY CELEBRATION

Event No	CH009
Organizing Department	Chemical Engineering
Associate Dept. NSC	Indian Institute of Chemical Engineers
Date	23/09/2022
Time	02:00 PM to 04:00 PM
Event Type	Celebration
Event Level	Department Level
Venue	Thanam Hall
Total Participants	162
Faculty - Internal	12
Students - Internal	150

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Mr M Sabarinathan	Production Manager	Lindstrom Service India Pvt Ltd	ersabarinathan@gmail.com	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Dharani L	Convenor

Outcome

The outcome of this guest lecture was that students gained an appreciation for the importance of quality management systems in chemical process industries and learned about advanced tools and resources in process engineering. Furthermore, they gained an understanding of the efforts made by engineers to provide safe and quality-driven products.

Event Summary

Engineer's Day is a celebration of the outstanding achievements and immense contributions of engineers to our society. It is an opportunity to honor and recognize the incredible work done by engineers in developing our world and improving the quality of life for everyone. On this special day, we celebrate the dedication, passion, and commitment of engineers to solving problems, advancing science, creating new technologies, and inspiring us all to strive for even better solutions to the nation. The Department of Chemical Engineering organized a guest lecture to celebrate Engineer's Day on September 23, 2022. The guest lecture was delivered by Mr. M. Sabarinathan, Production Manager, Lindstrom Service India Pvt. Ltd, Bangalore, India. The special guest lecture on "Quality Management Systems in Chemical Process Industries" enlightened how quality management systems ensure successful products and improved efficiency. 12 faculty members and 150 students of Chemical Engineering Department attended this guest lecture. Further, into the lecture, the students were educated on the importance of using advanced tools and resources in process engineering. They also gained an appreciation for the efforts made by engineers to provide us with safe and quality-driven chemical products. We thank the Speaker for taking the time to impart essential knowledge to our students and helping them in their journey toward becoming engineers. We are very grateful to M. Sabarinathan for taking the time to share his knowledge and expertise with our students and for helping them in their journey toward becoming engineers. This lecture also showed us how process engineering and quality management systems go hand-in-hand in providing safe and quality-driven chemical products. It was a great learning experience for our students to understand the importance of quality management systems in the

chemical process industry.



Department of Chemical Engineering
Organizes a Guest Lecture as a part of
Engineer's day Celebration
on
"Quality Management System in Chemical Process Industries"
Speaker

Mr. M. Sabarinathan
Production Manager,
Lindstrom Service India Pvt. Ltd.,
Bangalore, India
23, September 2022
2.00 PM
Thanam Hall
Convenor
Ms. L. Dharani
Assistant Professor / CH
Coordinators
Mr. R. Reo Anselm, II CH
Mr. A. Jeevan Kumar, II CH
kprietac.in

[Click to View](#)



[Click to View](#)



[Click to View](#)

024: WEBINAR ON EXPLORING INTERNATIONAL OPPORTUNITIES FOR CHEMICAL ENGINEERING UNDERGRADUATE STUDENTS

Event No	CH008
Organizing Department	Chemical Engineering
Associate Dept. NSC	Chemical Engineering
Date	12/01/2023
Time	02:00 PM to 03:00 PM
Event Type	Webinar
Event Level	Department Level
Venue	Online
Meeting Medium	
Meeting Link	https://us06web.zoom.us/j/85691983853?pwd=Z2V0dGliL2x0YSStNc0txOW13RVd0UT09
Total Participants	160
Faculty - Internal	10
Students - Internal	70
Other Participants	80

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Madhumithaa S R	Managing Director Embriture	Sharjah Research, Technology & Innovation Park (SRTIP), University City, UAE	madhumithaa.sr@embriture.org	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Laxmi Deepak Bhatlu M	Convenor
2	Balasubramanian S	Convenor

Outcome

Guest speaker address to participates opportunities of a Higher Education, summer internship abroad around 20 countries. Shared the opportunity to fulfill academic and personal goals while living and working abroad as well as financial and research institutions.

Event Summary

The event started at 2.00 pm. Dr. Laxmi Deepak Bhatlu welcoming the guest and participants. Ms. Madhumithaa S R delivered the lecture on Higher Education and Internship opportunities at abroad. Vote of Thanks delivered by Prof. Balasubramanian.

The event is about Higher Education and Internship opportunities at abroad. Studying abroad may be one of the most beneficial experiences for a college student. By studying abroad, students have the opportunity to study in a foreign nation and take in the allure and culture of a new land.

Speakers addressed the advantages study at abroad

Advantages of Study at abroad:

1. Improve your language skills.
2. Experience a different style of teaching.
3. Enhance your network.
4. Learn about new cultures and perspectives.
5. Discover career opportunities abroad.

Speaker addressed the requirements of MS and PhD program

Application Requirements

Since the application would be for pursuing a Master of Science and not limited to a particular field, general application requirements for MS application process.

Relevant Bachelor's Degree from a recognized university

English Proficiency Test

GRE/ GMAT Scores (subject to country)

Statement of Purpose

Letter of Recommendation

Resume (CV)

Speakers addressed the Internship opportunities at European countries and Asian countries.

Explains the advantages of Internships

INTERNSHIPS ABROAD ENCOURAGE CROSS-CULTURAL SKILLS AND SENSITIVITY

OVERSEAS INTERNSHIPS ALLOW YOU TO GAIN EXPERIENCE IN YOUR FIELD

Speaker addressed the funding opportunities and fee structure of various abroad universities. Also shared the information about the International educational tours.

Students are interacted with the guest speakers and clarifies their queries.

The session is very much useful and students feedback was good.



KPR Institute of Engineering and Technology
 UGC Approved | AICTE Approved | NAAC 'A' | ISO 9001:2015 Certified

Department of Chemical Engineering
 Organizes a
 Virtual Webinar on
**Exploring International Opportunities for
 Chemical Engineering Undergraduate
 Students**

12 January 2023
 02:00 PM [IST]

SPEAKER
Madhumitha S R
 Managing Director | Embrature
 Sharjah Research
 Technology & Innovation
 Park (SRITIP), University City,
 Sharjah, UAE

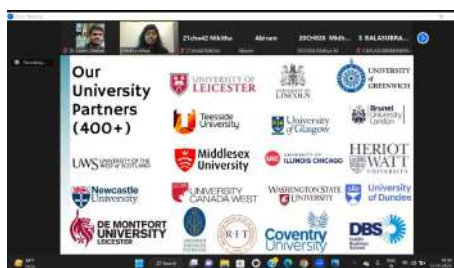
JOIN ONLINE
 Join Zoom Meeting
<https://us06web.zoom.us/j/85591963853?pwd=ZlZkdGJkL2p0Y5Nlc0RkOW13RVdOUU09>
 Meeting ID: 855 9196 3853
 Passcode: 557940

STUDENT COORDINATORS
 Nikitha B | Seshan E, II ChemE

COVENORS
 Dr. Laxmi Deepak Bharlu
 Asst. Prof. (SLG), ChemE
 Dr. S. Balasubramanian
 Prof./ Head, ChemE

kpriet.edu.in
[/KPRIETonline](#)

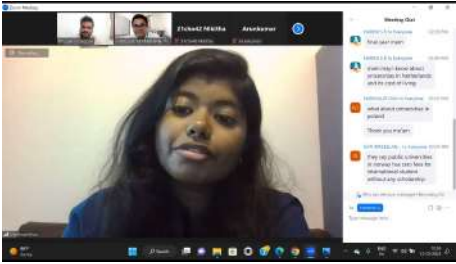
[Click to View](#)



Our University Partners (400+)

Logos of partner universities include: University of Leicester, Teesside University, Middlesex University, Newcastle University, De Montfort University, University of Glasgow, Heriot Watt University, University of Dundee, Coventry University, DBS, and others.

[Click to View](#)



[Click to View](#)



025: MILLETS TOWARD NUTRITIONAL HEALTH

Event No	CH007
Organizing Department	Chemical Engineering
Associate Dept. NSC	Indian Institute of Chemical Engineers
Date	11/01/2023
Time	03:00 PM to 04:00 PM
Event Type	Guest Lecture
Event Level	Department Level
Venue	Veena Hall
Total Participants	112
Faculty - Internal	12
Students - Internal	100

Related SDG



Involved Staffs

SI	Name	Role
1	Dharani L	Convenor
2	Umapriya R	Convenor

Outcome

The outcome of the event was a greater understanding and appreciation for millet as a healthy and nutritious food source. Attendees were also able to increase their knowledge on how to incorporate millet into their diets for a balanced lifestyle. In addition, the event provided an incredible learning opportunity for faculty and students alike and was a great success overall.

Event Summary

The Department of Chemical Engineering conducted a guest lecture given by Dr. Sarawathy Eswaran, Secretary, Ramasamy Chinnammal Trust, Vadavalli, Coimbatore on the topic "Hidden Health Profile of Millets" on January 11, 2023. The event was attended by 12 faculty members and 100 students. Dr. S. Balasubramanian, Professor & Head, Department of Chemical Engineering gave the welcome address. Dr. Saraswathy Eswaran spoke on the nutritional benefits of millets. The lecture also discussed the importance of millet utilization in traditional and modern diets, and how millets provide essential vitamins and minerals for a healthy lifestyle. The participants were highly engaged throughout the lecture and there was an active discussion on the topics covered. The event was concluded with an interactive Q&A session. The vote of thanks was given by Mr. Teepak Soorya of III B.Tech. Chemical Engineering. At the end of the event, faculty members and students alike had an increased knowledge on the nutritional benefits of millets and an understanding of how to incorporate them into a healthy lifestyle. Overall, the guest lecture was a successful event that was highly informative. The faculty members, students and event organizers were extremely pleased with the guest lecture and thanked Dr. Eswaran for his valuable insights. Additionally, the guests expressed their appreciation for the opportunity to attend and interact with the Secretary of Ramasamy Chinnammal Trust. The event was a great success and the department looks forward to having more such events in the near future. Feedback from the participants was very positive, citing their enhanced knowledge on the nutritional benefits of millets and how to incorporate them into a healthy lifestyle.



[Click to View](#)



[Click to View](#)



[Click to View](#)

026: ALL INDIA SEMINAR ON WASTEWATER TREATMENT SYSTEMS: WATER EFFICIENT TECHNOLOGIES AND OPPORTUNITIES

Event No	CH006
Organizing Department	Chemical Engineering
Associate Dept. NSC	Institution of Engineers (India)
Date	22/12/2022 to 23/12/2022 (2 Days)
Time	09:00 AM to 04:00 PM
Event Type	Seminar
Event Level	National Level
Venue	Veena Hall
Total Participants	162
Industry Personnel	5
Faculty - Internal	7
Faculty - External	15
Students - Internal	120
Students - External	5
Other Participants	10

Related SDG



Involved Staffs

Sl	Name	Role
1	Priya A K	Convenor
2	Bharani S	Coordinator

Outcome

At end of the seminar participants will be able to 1. Understand the innovative and emerging wastewater treatment technologies 2. Know about latest cutting-edge eco-technologies for a sustainable transition in wastewater treatment, reuse, and resource recovery, at the urban and industrial scale

Event Summary

Day-1 (22/12/2022)

The registration commenced at 9.00 am and went on till 9:30 am at Chemical Engineering Department, KPRIET. The Inaugural function started at 9:30 am and Dr.S Shanmugam, Chairman, IE(I) presented the welcome address and briefed upon the activities of IE(I) in promoting Science and Technology. Dr. M.Akila, Principal, KPRIET gave the felicitation address to the gathering highlighting the importance of this seminar. Dr.S. Balasubramanian, Professor and Head, Department of Chemical Engineering, KPRIET presented an overview of the Two day All India Seminar. Mr. Thaj Mohammed Khaleel, Proprietor Khaleel Tanning Company, Erode delivered the chief guest address elaborating the significance of wastewater treatment and management. The proceeding was released in the form of CD by the dignitaries. Lt Dr A K Priya, Professor, Department of Chemical Engineering, KPRIET briefed about chief guest and Ms Bharani, Assistant Professor, proposed the vote of thanks.

The first Technical session started at 10:00 am was on “Handling of wastewater and sludge” by Mr. Thaj Mohammed Khaleel, Proprietor, Khaleel Tanning Company, Erode. The speaker shared his experiences in developing a company and challenges faced in developing a

wastewater treatment and implementation in his own company.

The second key note session commenced at 11:15 pm delivered by Dr. Soundarapandiyan Kamaraj, Ret. Professor, TNAU & Director, Non Conversational Energy and Rural Development Society, Coimbatore shared his expertise on 'Biogas and waste management'. He briefed about the installation of biogas plant in house and public communities. How to minimize waste and convert into useful energy source. He also gave insights to students about how to start business using waste.

The Third key note session commenced at 02:00 pm delivered by Mr. K. Murugesan, Assistant Professor (Sr. Gr), Department of Chemical Engineering, KPRIET shared his views on 'PHARMACEUTICAL WASTEWATER TREATMENT USING PHOTOCATALYSIS'. He presented about the recent technologies in wastewater treatment in pharma company and he discussed about the photocatalysis and its role in wastewater treatment.

This was followed by paper presentation – Technical Session IV where 5 papers were presented.

Day-2 (23/12/2022)

The technical session V on “Zero waste Management” commenced at 09.30 AM delivered by Lt Dr A K Priya, Professor, Department of Chemical Engineering, KPRIET, Coimbatore. The speaker elaborated on what is zero waste and how to follow zero waste management in home and industries.

This was followed by paper presentation – Technical Session VI where 5 papers were presented as parallel session.

The technical session VII on “Membrane Technology” commenced at 11.00 AM delivered by Dr R Umapriya, Assistant Professor (SI.G), Department of Chemical Engineering, KPR institute of Engineering and Technology, Coimbatore. The speaker elaborated on the development of advancements in water treatment and Management and its development.

The technical session VIII on “Advances in Water Treatment” commenced at 02.00 PM delivered by Dr. Illangovan Rajan, Former Special Chief Engineer, PWD Former Vice Chairman Tamilnadu Water Resources Development Cell, PWD, WRD, Chennai. The speaker elaborated on the development of advancements in water treatment, various new initiatives government made for public and cost effective technologies for waste management.

The valedictory session began by 03:15 pm and the certificates were presented to the participants by Dr. S. Balasubramanian, Professor & Head, Department of Chemical Engineering, KPR institute of Engineering and Technology, Coimbatore. Feedback from the participants was obtained. The Seminar came to an end by 04.00pm.



[Click to View](#)



[Click to View](#)



[Click to View](#)



027: INFORMAL INTERACTION WITH INDUSTRY EXPERT

Event No	CH005
Organizing Department	Chemical Engineering
Associate Dept. NSC	Industry Institute Partnership Cell
Date	04/11/2022
Time	10:00 AM to 11:00 AM
Event Type	Expert Talk
Event Level	Department Level
Venue	CHEMICAL III YR CLASSROOM
Total Participants	66
Faculty - Internal	1
Students - Internal	65

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Karthick B	Assistant Manager	Seshasayee Paper and Board Limited, Erode	bkarthikdurai@gmail.com	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Bharathi Ganesan R	Convenor

Outcome

Increased awareness about vacancies, qualities, skills required in chemical process industries. Encouraging students to take up core jobs and dispelling doubts regarding core jobs.

Event Summary

The event started at about 10:00 AM as Dr. Bharathi Ganesan introduced the speaker Mr. B. Karthick to the students group containing about 30 2nd year, 30 3rd year and 2 final year chemical engineering students.

Mr. B. Karthick is the Assistant Manager in Chemical recovery section of Seshasayee Papers and Boards Limited, Erode. He holds a M.Tech Chemical Engineering degree.

As it was an informal interaction with the industry expert, faculty members were not present to encourage students to freely ask questions. The students asked about the low initial salary when compared with IT jobs. Mr. Karthick replied that after about 5 years, the technology of IT industry gets updated whereas the skills learnt by Chemical Engineers in industry grow and become valuable only after about 5 years. Hence the demand and value of chemical engineers increases over period of time, hence the salary also. He asked the students to look for long term association with industries.

Many students asked about the role of women in chemical process industries. Mr. Karthick acknowledged that in paper and pulp industry, women are not present as process engineers but are present in procurement, technical and quality assurance sections. Further he said certain industries such as pharmaceuticals may have opportunities for women. Slowly the industry is accepting women he concluded.

The students asked about possibility of bulk requirement by chemical industry, to which Mr. Karthick responded that it is not much possible. Only 2 or 3 persons per industry may be absorbed for placements or internships as safety is of higher concern. He also stressed the competition given by Mechanical engineers who have overlapping skill set needed to operate a chemical plant.

Mr. Karthick gave an overview on various certifications or exams after B.Tech on safety, energy audit, boiler inspection etc to get into

government sector.

Mr. Karthick stressed upon process control as the main vital subject for survival in industry along with the basics of process calculations, momentum-heat-mass transfer courses.

Mr. Karthick concluded the talk that if students are ready for shift basis and to learn after coming to industry also there is scope for growth in their life.



[Click to View](#)



[Click to View](#)



[Click to View](#)

028: CHEMICAL METALLURGY IN MINING AND MINERAL PROCESSING

Event No	CH004
Organizing Department	Chemical Engineering
Associate Dept. NSC	Indian Institute of Chemical Engineers
Date	21/07/2022
Time	11:00 AM to 12:30 PM
Event Type	Guest Lecture
Event Level	Department Level
Venue	Thanam Hall
Total Participants	125
Faculty - Internal	12
Students - Internal	110
Other Participants	3

Related SDG



Resource Persons

SI	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Mani Selva	Operations Manager - Production	Tronox Mining Limited, Australia	manivannan.Selvaraju@Tronox.com	xxxxxxxxxx

Involved Staffs

SI	Name	Role
1	Arunkumar N	Coordinator

Outcome

Students Gained knowledge in mechanical unit operations in mining and mineral processing industry. Also gained knowledge on life skills and personality development

Event Summary

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 21.07.2022, 11.00AM - 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. Mineral processing can involve four general types of unit operation: *comminution* – particle size reduction; *sizing* – separation of particle sizes by screening or classification; *concentration* by taking advantage of physical and surface chemical properties; and *dewatering* – solid/liquid separation. In all of these processes, the most important considerations are the economics of the processes, which is dictated by the grade and recovery of the final product. To do this, the mineralogy of the ore needs to be considered as this dictates the amount of liberation required and the processes that can occur. The smaller the particles processes, the greater the theoretical grade and recovery of the final product, but this is difficult to do with fine particles since they prevent certain concentration processes from occurring. The first half of the session was focused on mineral processing operations in mining industry. The mechanical unit operations such as grinding, separation, leaching were discussed in details with videos demonstrations. The second half of the session was taught on life skills and personality development. Head of the department honored the guest with a corporate gift. Ms. Varsha of final year has

proposed a vote of thanks



[Click to View](#)



[Click to View](#)



[Click to View](#)

*** END ***