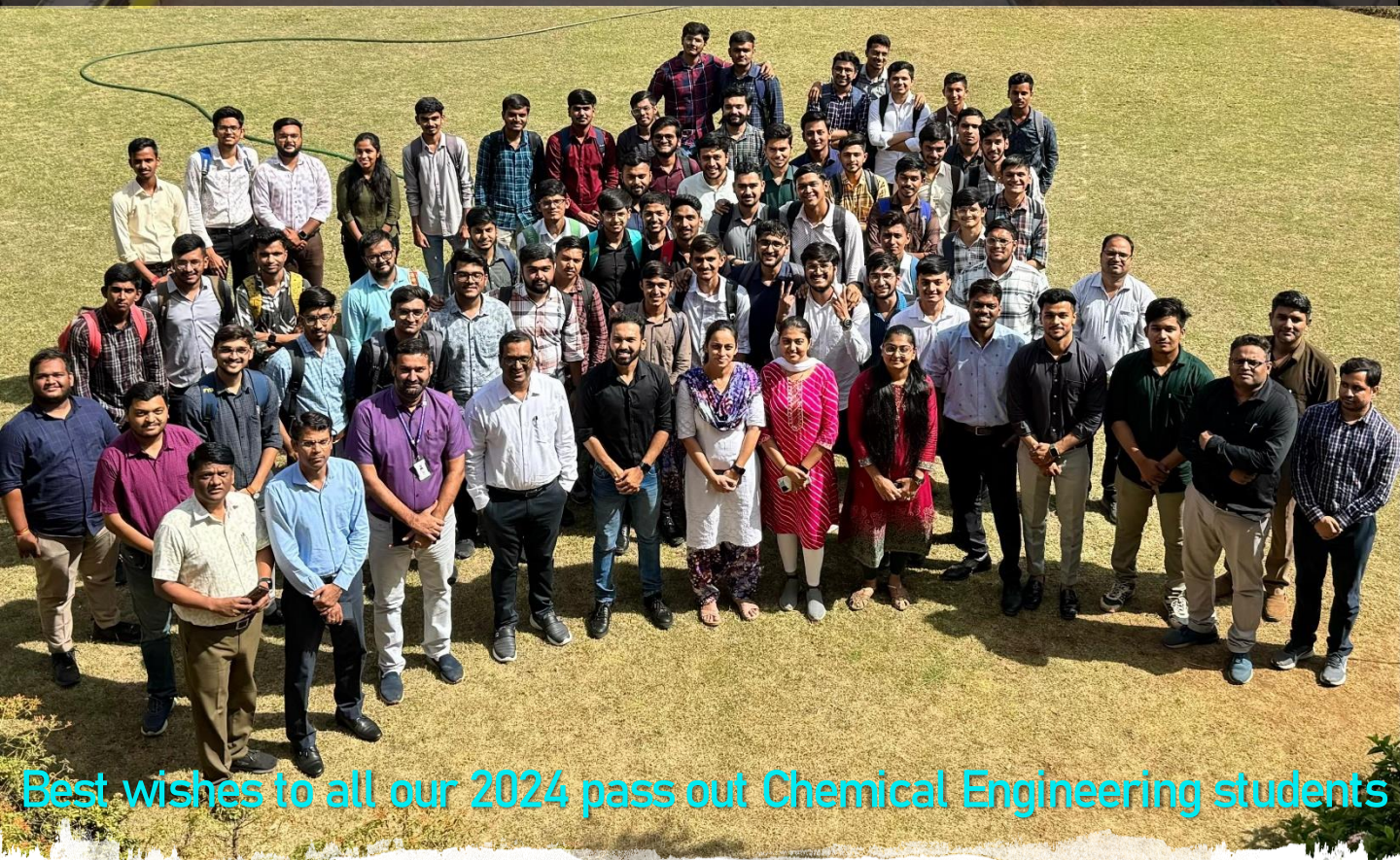












CHEMEZINE

Chemical Engineering e-Magazine



Best wishes to all our 2024 pass out Chemical Engineering students

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DEPARTMENT OF CHEMICAL ENGINEERING, SRICT



To achieve excellence in Chemical Engineering and allied fields by providing excellent teaching learning experience enabling students to become competent professionals to tackle global issues.

MISSION

- ❖ To provide excellent technical education to students with basics of chemical engineering.
- ❖ To provide theoretical and practical education so that students vigorously apply knowledge in solving chemical engineering problems for sustained development.
- ❖ To inculcate professional ethics among students by exposing them to state of the art technologies in the field.
- ❖ To inspire students for lifelong learning and to develop leadership qualities in their career.

Program Educational Outcomes (PEOs) of Department

- ❖ To impart the fundamentals of chemical engineering and enable them to have a successful career in wide range of core industries.
- ❖ To deliver quality technical education thereby developing sustainable technology in addressing global issues.
- ❖ To prepare graduates who are capable of solving complex chemical engineering problems.
- ❖ To provide practical aspects of chemical engineering to the students by ways of industrial visits, expert lectures and increased industry-institute interaction thereby making students industry ready.
- ❖ To prepare graduates who can effectively communicate, demonstrate leadership qualities with creative thinking and professional ethics.



Message from Head of Department

As we reflect on the completion of another semester, I am pleased to share the many achievements and activities that have defined our journey in the Department of Chemical Engineering.

First and foremost, I am delighted to announce that all of our graduating students willing to get placements have successfully secured placements—a remarkable accomplishment that speaks volumes about their dedication and the caliber of education they have received here. It is indeed a proud moment for our department.



In addition, we celebrated the graduation of our first batch of Diploma Engineering students in May 2024. Many of these graduates are now poised to transition seamlessly into our Diploma to Degree program, a testament to their academic readiness and the seamless pathway we provide for their continued educational journey.

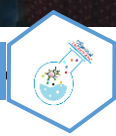
Throughout the semester, our IChE Students Chapter has been incredibly active, organizing a diverse array of activities and events that have enriched the academic and professional lives of our students. Beyond academic and extracurricular achievements, our faculty members have been deeply engaged in impactful research initiatives. Their efforts have borne fruit in the form of several published articles, underscoring our commitment to advancing knowledge and innovation in the field of chemical engineering.

On the educational front, we have introduced a certification program for plant operators, which has been well-received across various industries. Looking forward, we are preparing to launch a new course on piping engineering, aimed at equipping our students with specialized skills that are highly sought after in the industry. As we set our sights on the next semester, we have laid out an ambitious agenda with a focus on fostering academic excellence, promoting interdisciplinary collaboration, and expanding our outreach efforts.

Dr. Krunal J. Suthar

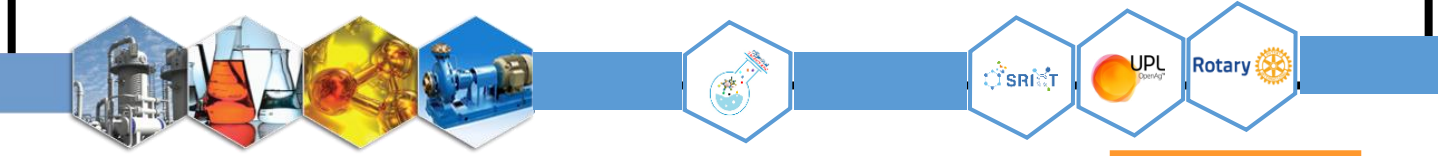


Batch	Course	Sem	Industry	Place
			Om dye	Panoli
2020	Diploma	IV	Harsh Industries	Panoli
			Sterlite Organics	Panoli
			Godrej Ltd.	Valia
2021	Diploma	VI	Industrial expo	Ankleshwar
			Element Chemilink	Ankleshwar





Batch	Course	Sem	Industry	Place
			Atul Ltd.	Ankleshwar
2020	BE	IV	Eskay Iodine	Jhagadia
			Star Oxochem	Jhagadia
			Godrej, Valia,	Valia
2021	BE	VI	Industrial expo	Ankleshwar
			Element Chemilink	Ankleshwar





**EXPERT
LECTURES
B.E.**



Sr. No	Semester	Expert Name, designation and organization	Topic
1	B.E. VI	Mr H.M. Modi & Mr. Rashmin Shah (Rtd. ISRO Scientist)	Space Talk
2	B.E. VI	Mr. Rohit Gupta (Deputy Manager, SRF Ltd. Ankleshwar)	Industrial Safety
3	B.E. VI	Mr. Sudeep Mathur (External Consultant, Mckinsey)	Root Cause Analysis
4	B.E. VI	Mr. Rabin Das (Ex Senior GM, Finorchem Ltd., Panoli)	Computer Aided design
5	B.E. IV	Mr. Hitesh Panshal (Assistant Professor, Dharmsinh Desai University)	Basics of Chemical Engineering
6	B.E. IV	Mr. A.M. Darji, (General Manager, Godrej Ltd. Valia)	Waste water treatment
7	B.E. IV	Dr. Ajaykumar K.S. Kallai (Vice President, Uniphos Envirotronic Pvt. Ltd., Vapi)	Chemical Detector tube for Toxic Gas Monitoring
8	B.E. IV	Mr. Praveen Prashant (Executive Editor, Indian Chemical News)	Emerging opportunities in Chemical Industry





EXPERT LECTURES D.E.



Sr. No	Semester	Expert Name, designation and organization	Topic
9	D.E. VI	Mr. Rohit Gupta (Deputy Manager, SRF Ltd. Ankleshwar)	Understanding MSDS importance
10	D.E. VI	Mr. Praveen Prashant (Executive Editor, Indian Chemical News)	Emerging opportunities in Chemical Industry
11	D.E. VI	Dr. Ajaykumar K.S. Kallai (Vice President, Uniphos Envirotronic Pvt. Ltd., Vapi)	Chemical Detector tube for Toxic Gas Monitoring
12	D.E. VI	Mr. Prnaysinh Boradhara (Gram Panchayat Sacheev, Gujarat Government)	Opportunities for Chemical Engineers in govt. sectors
13	D.E. IV	Mr. Ajay Pancholi (Senior Manager, UPL-Unit 1)	Sustainable Development and Green Technology
14	D.E. IV	Mr. Saurabh Tiwari (Senior Executive, SRF Ltd.)	General Awareness of Chemical industries
15	D.E. IV	Mr. Sudarshan Lohar (Assistant Manager, BASF Dahej)	Awareness of Chemical Industries
16	D.E. IV	Mr. Prnaysinh Boradhara (Gram Panchayat Sacheev, Gujarat Government)	Opportunities for Chemical Engineers in govt. sectors





PEER LEARNING INITIATIVE

Under Peer learning initiative (PLI), senior student delivers technical content to peers making it comfortable and easy for students. It also improves communications skills, and professional development.



Name of student	Sem	Course Name	PLI Delivered in	
PATEL CHINMAY	BE-VI	Separation Process	DE	VI
PATEL DIPALI	BE-VI	Rubber Tech.	DE	VI
YAX PATEL	BE-VI	CE - Maths	BE	IV
SURTI ROHAN	BE-VI	Heat Transfer	BE	IV
VINAYAK SONAWANE	BE-VI	CE – Maths	BE	IV
PATHAN SHIFAN T	BE-VIII	Nanotechnology	BE	VI
JAY BAROT	BE-VI	Heat Transfer	BE	IV
VIDIT GANDHI	BE-VI	CPI	BE	IV
VISHNUDUTT PANDEY	BE-VI	IOSM	DE	VI
RANA MEET	BE-VI	Polymer Tech	DE	VI
RENUKA NASANE	ME-IV	Process Utilities	BE	VI
DHRUV A PATEL	ME-IV	CRE	BE	VI
PATEL NIRMAL	ME-IV	CRE	BE	VI

Continue >>



PEER LEARNING INITIATIVE

Name of student	Sem	Course Name	PLI Delivered in	
AUM JOSHI	BE-VI	WWT	BE	IV
SMIT PATEL	BE-VIII	CRE-II	BE	VI
KALPESH PATIL	BE-VIII	CRE-II	BE	VI
DIGHE PRITEE	DE-VI	PRPC	DE	IV
PRIYA DIGHE	DE-VI	PC&ET	DE	IV
SAKSHI DIGHE	DE-VI	PC&ET	DE	IV
MAKWANA JEELKUMAR	DE-VI	CPT-II	DE	IV
PARMAR PARTH	DE-VI	CPT-II	DE	IV
PATEL BHAVYA	DE-VI	Process Utility	DE	IV
PATHAN VAJIDKHAN	DE-VI	PC&ET	DE	IV
BHARGAV GANDHI	BE-VI	CRE-II	BE	VI
GUPTA AKSHAY	BE-VI	Instrumentation	DE	IV





One to One (counselling) Sessions with students



Meeting of Diploma Semester-6 students with Mr. Ashok Panjwani, President, UPL University



Meeting of B.E. Semester-7 students with Dr. Shrikant Wagh, Provost, UPL University



Meeting of B.E. Semester-8 students with Dr. Omprakash Mahadwad, Dean – Engineering & CoE, UPL University

An important and a flagship activity of conducting one-to-one meetings with students serve as a platform for personalized support, guidance, and improvement strategies tailored to individual student needs, contributing to the enhancement of overall performance within the academic environment.

**UNIVERSITY
EXAM RESULTS
D.E., B.E., M.E.
Semester-IV, VI, VIII
Summer-2024**



Sr. No	Semester	Total	Pass	Fail	% Pass
1	D.E. Semester-4	104	87	17	83.65
2	D.E. Semester-6	65	59	06	90.77
3	M.E. Semester-4	06	06	00	100
4	B.E. Semester-8	77	77	00	100



10 Pointers

Diploma (D.E.) - Chemical Engineering Sem- 4 Summer 2024			
Sr. No.	Enrolment No.	Name of Students	SPI
1	220101101012	DHURVKUMAR KAMDAR	10.00
2	220101101030	MACHHI KRUTIK	10.00
3	220101101038	PANDEY SAKSHI	10.00
4	220101101046	PATEL DHARMIKKUMAR	10.00
5	220101101057	PATEL MAN ROHITBHAI	10.00
6	220101101079	PATIL ROHIT PRAHALAD	10.00
7	220101101083	PRAJAPATI VEDANKUMAR	10.00
8	220101101088	RULESH KUMAR	10.00
9	220101101101	VANZA YASH CHETANKUMAR	10.00
10	220101101102	VARSA DA SHIV SURESHBHAI	10.00
11	220101101111	VISHWAKARMA PRINCE DILIP	10.00

**UNIVERSITY
EXAM RESULTS
D.E., B.E., M.E.
Semester-IV, VI, VIII
Summer-2024**



CHEMICAL ENGINEERING BRANCH

D.E.- Chemical Engineering Sem-6 Summer-2024 (10 Pointers)

Sr. No.	Enrolment No.	Name of Students	SPI
1	210101101004	DIGHE PRITEE SURYAKANT	10.00
2	210101101037	PATEL BHAVYA	10.00
3	210101101039	PATEL HERIK DHAVALKUMAR	10.00
4	210101101042	PATEL RAJKUMAR MANOJKUMAR	10.00
5	210101101049	PATHAN VAJIDKHAN VILLAYATKHAN	10.00

M.E.- Chemical Engineering Sem-4 Summer-2024 (10 Pointers)

Sr. No.	Enrolment No.	Name of Students	SPI
1	220103101002	MAWASKAR SUBHASH NARAYAN	10.00
2	220103101003	NASANE RENUKA RAVI	10.00
3	220103101004	PATEL DHRUV ANILBHAI	10.00
4	220103101005	PATEL NIRMAL SURESHBHAI	10.00

B.E.- Chemical Engineering Sem-8 Summer-2024 (TOPPERS)

Sr. No.	Name	Position	SPI
1	CHANDEGRA MEET	01 st Rank Branch wise - Chemical Engg.	10.00
2	RAJ ADITYASINH	3 rd Rank Branch wise - Chemical Engg.	10.00
3	MODI NISARG	5 th Rank Branch wise - Chemical Engg.	10.00
4	SAINI UMESH	6 th Rank Branch wise - Chemical Engg.	10.00
5	LAKDAWALA OM	8 th Rank Branch wise - Chemical Engg.	10.00
6	PANDIT DEVARSH	09 th Rank Branch wise - Chemical Engg.	10.00



100% PLACEMENT OF STUDENTS

Chemical Engineering (BATCH 2020-24)

Chemical Engineering Department Shroff S. R. Rotary Institute of Chemical Technology UPL University of Sustainable Technology



PANDEY OMPRAKASH
(UPL LTD.)



RANA RISHABHKUMAR
(NOCIL LTD.)



MODI DEEP MANOJKUMAR
(PIRAMAL PHARMA)



KOSAMIA RAJVIRSINH
(UPL LTD.)



PATEL DHRUNILKUMAR
(NOCIL LTD.)



PATEL SMITKUMAR
(UPL LTD.)



PATEL MITUL HEMANTKUMAR
(NOCIL LTD.)



PATEL SANKETKUMAR
(FMC CHEMINOVA)



MODI NISARG AMINESH
(UPL LTD.)



RAJ ADITYASINH
(AARTI PHARMALABS)



RADADIYA MEET
(FMC CHEMINOVA)



SINDHA SIDDHARTHSINH
(EPIGRAL LTD.)



NAIR ASHWIN BABU
(FMC CHEMINOVA)



GEVARIYA NAIMISHKUMAR
(NOCIL LTD.)



LAKDAWALA OM
(LANXESS INDIA)



VIJYANTKUMAR PATEL
(EPIGRAL LTD.)



JADAV YUVRAJSINH
(UPL LTD.)



DESALE DEEPAK
(AARTI PHARMALABS)



MAHESHKUMAR PAL
(BODAL CHEMICALS)



PATEL DHAVAL
(EPIGRAL LTD.)



SHREYANSH PATEL
(GFL)



PATIL KALPESH
(AARTI PHARMALABS)



PATEL HARSH
(NOCIL LTD.)



THUMAR JAY
(BODAL CHEMICALS)



CHANDEGRA VATSAL
(BODAL CHEMICALS)



RUT JOSHI
(GREENS POWER)



HEMAL DARJI
(MEGHMANI INDUSTRIES)

Congratulations to the students of Chemical Engineering Department - Batch 2020-24



100% PLACEMENT OF STUDENTS

Chemical Engineering

(BATCH 2020-24)

Chemical Engineering Department
 Shroff S. R. Rotary Institute of Chemical Technology
 UPL University of Sustainable Technology



PRINCE DINESH MOVALA
(NOCIL LTD.)



SAINI JAYESHKUMAR
(BODAL CHEMICALS)



DEVARSH PANDIT
(EPIGRAL LTD.)



PARMAR DEVKUMAR
(RAKS PHARMA)



PATEL VISHWAM
(LANXESS INDIA PVT LTD)



PRAJAPATI DEV
(ACUME LTD.)



PATIL BHAVESH GOPALBHAI
(NOCIL LTD.)



PATEL VINEET ASHOKBHAI
(NOCIL LTD.)



PATEL VASAVKUMAR
(NOCIL LTD.)



KATARIYA KASHYAPKUMAR
(RAKS PHARMA)



UTSAV PATEL
(PIRAMAL PHARMA)



CHANDEGRA MEET MOHAN
(UPL LTD.)



SAINI UMESH
(EPIGRAL LTD.)



DEWANSH RAJENDRA MISHRA
(UPL LTD.)



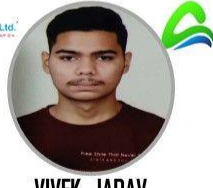
GUPTA PAWAN SANJAY
(LANXESS INDIA PVT LTD)



PATEL DEV
(FMC CHEMINOVA)



SWAPNIL BHAVSAR
(BODAL CHEMICALS)



VIVEK JADAV
(ACUME LTD.)



YASH PATEL
(GFL)



HARSHPAL THAKORE
(MEGHMANI INDUSTRIES)



RUTIK PATEL
(VARDHMAN)



KENIL PATEL
(MEGHMANI INDUSTRIES)



DIVYA NAYAK
(MEGHMANI INDUSTRIES)



SNEHAL VASAVA
(MEGHMANI INDUSTRIES)



RAVI MALVIYA
(MEGHMANI INDUSTRIES)



RUSHI RANA
(MEGHMANI INDUSTRIES)



KEYUR PATEL
(MEGHMANI INDUSTRIES)

Congratulations to the students of Chemical Engineering Department - Batch 2020-24



RECENTLY SIGNED MoUs



Signing of MOU between UPL University & Sterlite organics, Panoli



Signing of MOU between UPL University & Coats and Layers chemicals



Signing of MOU between UPL University & Om Dyes Chem, Panoli



Signing of MOU between UPL University & Khawahish Lifesciences, Ankleshwar



Signing of MOU between UPL University & Harsh Industries, Panoli



Signing of MOU between UPL University & Cubic Analytical Solution



Signing of MOU between UPL University & Guru Ashish Pharma Chem



Signing of MOU between UPL University & Dahej farm solutions

SRICT IChE Students Chapter – Activities (Summer 2024)



Let's Hunt it -13 Feb 24

IChE students chapter organized an event 'Let's hunt it' that was based on unit conversion challenges. The event encouraged teamwork and critical thinking while enhancing practical understanding of unit conversions.



Series of Mock Test (for Diploma final year students)

The Mock tests were organized under the banner of IQAC and IChE students' chapter and it was coordinated by BE Semester-6 students. Three tests were conducted: 27th Feb, 19th March and 2nd April.



SRICT IChE Students Chapter – Activities (Summer 2024)



ChemPore - Extempore on chemical Engineering

A technical event (ChemPore) was organized for diploma Students on 15th March 2024. Event was based on speaking competition themes centered around principles of chemical Engineering. To obtained technical knowledge in chemical engineering, overcame stage fright, and enhanced communication skills were the key objectives of this events. The event was organized by 6th Sem Diploma Chemical Engineering students



SRICT IChE Students Chapter – Activities (Summer 2024)



ChemPore - Extempore on chemical Engineering for BE-IV

The ChemPore (Extempore on chemical Engineering) a technical event was organized for BE Semester-IV Students. The event was organized on 19th April 2024.



Science Day Celebration



On the occasion of National Science Day, the Department of Chemical Engineering under the banner of the IChE Students Chapter organized Peer Learning Initiative (PLI) sessions today on the topic "Role of Science and Engineering in the progress of our Nation". 12 Sessions were conducted across all D.E. and B.E. classes with 12 students from Diploma, Degree, and Masters of Chemical Engineering delivering the sessions to their peers. They correlated the importance of courses with recent developments in the field of Science and Technology.

SRICT IChE Students Chapter – Activities (Summer 2024)



Poster Presentation – 2nd May 2024

The IChE Students Chapter of SRICT organized a Poster Presentation on 2nd May for Chemical Engineering students of BE Sem-8 and ME Sem-4. All BE and ME students actively participated in the presentation, showcasing their knowledge gained from in-plant training and dissertation work, respectively.



SRICT IChE Students Chapter – Activities (Summer 2024)



One day workshop on Reaction Engineering – 3rd May 2024

The Dept of Chemical Engineering in collaboration with IChE students' Chapter SRICT, organized one day training workshop for Diploma Final year students of nearby Institutes. The session were conducted on Fundamentals of Chemical Engineering and Reaction Engineering – Experiments and Data interpretation. A total of 43 students participated in the event.



Other Activities

Dr. Krunal J. Suthar conducted a technical session on Application of Chemical Engineering Thermodynamics at Government Polytechnic Valsad for Diploma Chemical Engineering students. The session was delivered on 25th April 2024.



Dr. Hemant Kumar Balsora addressed the topic of "Minimization of Single-Use Plastic and Its Treatment" during a workshop sponsored by GEMI at Tapi Diploma Engineering College in Surat today. The session was delivered on 6th Jan 2024.

Dr. Ravindra Kanawade attended AICTE ATAL FDP on Artificial Intelligence: Applications in Modelling, Process Control and Optimization at GEC Valsad during 01-06 January 2024



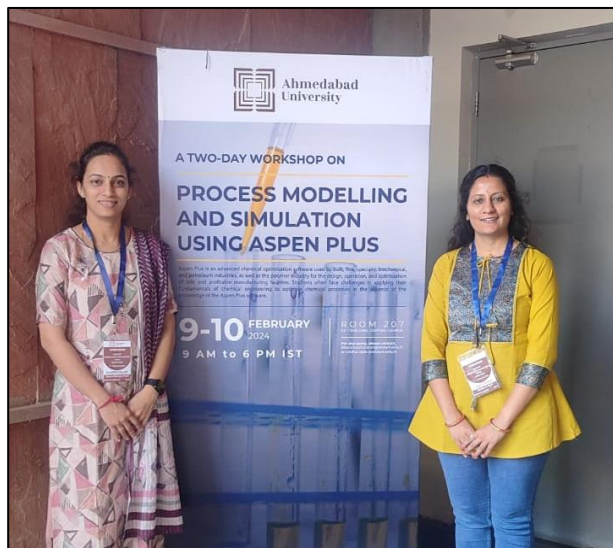
Other Activities

Mr. Chintan Modi and Dr. Hiren Mahida attended a one-day seminar named "STEAM: An Energy Source for the Chemical Industry" on February 27th, 2024, arranged by BDMA and conducted by Mr. G M Patel.



Dr. Dinesh Kumar Pandey (from Chemical Engineering department) attended One Day Technical Workshop on "VOCs and Odorous Chemical Gas Monitoring" at Bharuch. The program was organised by SWAN Environment Services Pvt Ltd.

Ms. Dhara Patel and Ms. Monika Patel attended a two-day workshop on "process modelling and simulation using Aspen plus" on 9-10 February 2024 at Ahmedabad University.



Other Activities

Parents Teachers Meeting - 16th March 2024

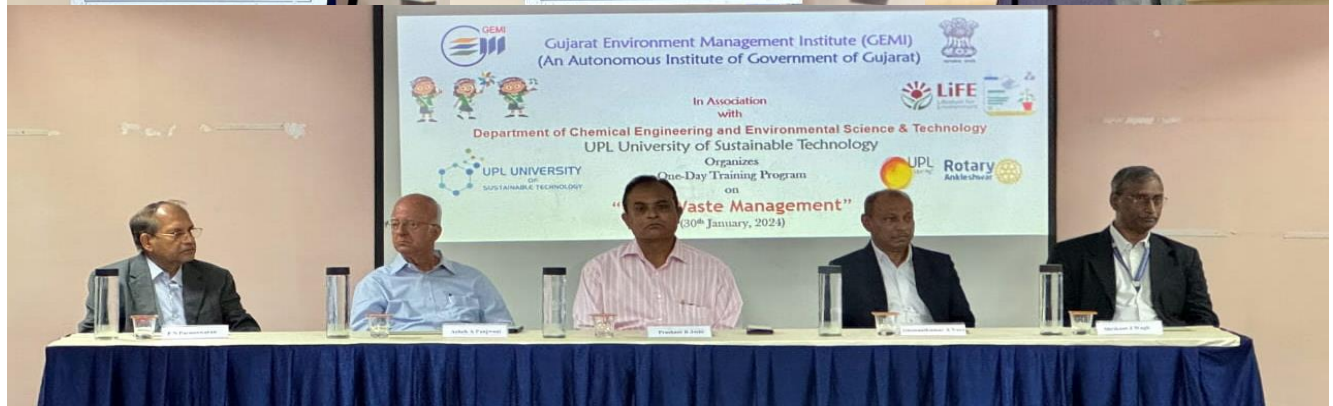
In every semester, the department of Chemical Engg. organizes a Parents Teacher Meeting (PTM). During the Even semester, session Summer 2024, the meeting was organized for our Diploma 4th and 6th Semester students. We provided an overview of university and dept activities, reviewed student overall performance and briefed parents on the entrance test for DtoD admission. It was a very interactive meeting.



Other Activities

One-day training program on Solid Waste Management

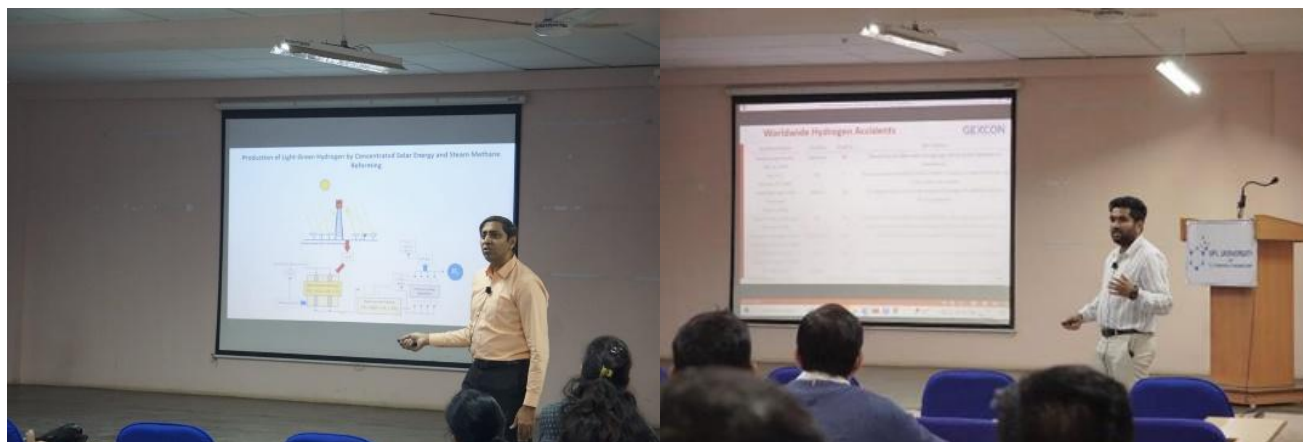
One-day training program on Solid Waste Management, sponsored by GEMI under the LiFE mission was organized 30th January 2024. Department of Chemical Engineering organized the program in collaboration with Department of Environmental Science and Technology. We were honored to have Shri Prashant Joshi, DDO, Bharuch, as our Chief Guest for the inaugural session. The inauguration was attended by Shri Ashok Panjwani, Hon. President of UPL University, Government officials, industrial professionals, speakers, research scholars, students, faculty and staff. Sessions were led by experts like Dr. P N Parameswaran and Mr. Dhimant Vora, along with our in-house experts, Dr. Pratibha and Dr. Kartik. The audience praised the informative content, highlighting the need for collaborative efforts in sustainable waste management.



Other Activities

One-day training program on Green Hydrogen Technologies

Department of Chemical Engineering and Chemical Technology, UPL University of Sustainable Technology in association with Gujarat Environment Management Institute (GEMI), an autonomous institute of Government of Gujarat organized a one-day training program on “Green Hydrogen Technologies” on **6th January 2024**. The program aimed to cover various aspects of green hydrogen such as advances in green hydrogen technology, recent advances in water electrolysis for hydrogen production, reforming of bio feeds for hydrogen production, 3D modelling and consequences analysis in hydrogen process safety etc. The program is arranged in four sessions which was led by Prof Prakash Viadya (RCF Chair Professor, Chemical Engineering, ICT Mumbai). Mr. Vikash Singh (Team Lead – Project Process Technology, UPL Jhagadiya) and Mr. Govind K Patil (Senior Research Scientist & Business Development Manager India and Middle East, GEXCON).



Other Activities

Republic Day Celebration

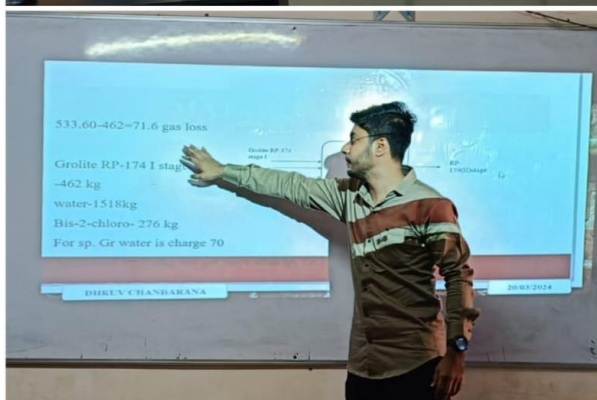
A grand and solemn celebration of India's 75th Republic Day at UPL University of Sustainable Technology was celebrated. NCC cadets welcomed the guests with a parade. Chief Guest Rtn. Dr. by Narendra Shah (Past President - Rotary Club of Ankleshwar) hoisting the flag. The program was graced by President of UPL University – Rtn. Ashok Panjwani, Provost Prof. Shrikant Wagh, Secretary Rtn. Angiras Shukla, Industry representatives, Rotary Club members, University officials, Faculty, Staff members and students. A cultural program with dance, music and singing by the students of UPL University in celebration was presented. Best cadets were awarded for best performance in NCC. Also, during the last academic session, Certificates were distributed to students and staff members who successfully completed the NPTEL course. Faculty members who successfully completed Ph.D. were also felicitated on the occasion. The program was coordinated by Department of Chemical Engineering in collaboration with department of MSH.



Other Activities

PROJECT REVIEWS

Three project reviews were conducted regularly for students in the eighth semester of Bachelor of Engineering (B.E.) and the fourth semester of Master of Engineering (M.E.) in Chemical Engineering. These reviews aimed to assess the students' performance and provide guidance to ensure they were progressing in the correct direction with their projects. By conducting these reviews, the faculty or mentors were able to monitor and support the students, helping them achieve their academic and project-related goals effectively.



Other Activities

Workshop on incorporating sustainability concepts in the undergraduate chemical engineering curriculum

A one-day academic workshop was organized by the Department of Chemical Engineering of IIT Bombay on incorporating sustainability concepts in the undergraduate chemical engineering curriculum. The workshop involved faculty members from chemical engineering departments from different institutes/colleges to generate more ideas to enrich the core chemical engineering curriculum with sustainability concepts. Dr Swapna Panda from CE, Mrs. Gloria James from EST and Mr Harshal Patil from CT represented UPL UNIVERSITY.



Dr. Ravindra Kanawade and Dr. Omprakash Mahadwad workshop on HAZCHEM Transportation at Baroda, organized by LCS India

Dr. Krunal J. Suthar and Dr. Pratibha Gautam attended 9th Edition of India Industry Water Conclave and 11th Edition of FICCI Water Awards December 15, 2023, FICCI, Federation House, New Delhi



Other Activities

Annual Cultural Event – REVA FEST 2024

On April 19th, UPL University of Sustainable Technology celebrated REVA FEST 2024 at Ankleshwar Gymkhana stadium, Ankleshwar. The event welcomed students, guardians, and distinguished guests including Chief Guest Mr. Arvind Agarwal, Retd. IAS, Guest of Honour Mr. Rajendra Gandhi (Managing Director, GRP), Mr. Nihar Dave (District Governor of 3060), Mrs. Vaishali Dave, President of the University Mr. Ashok Panjwani, Mrs. Meera Panjwani, Mr. Kishore Surti, Mr. Ishwar Sajjan, Professor S. Guha from IIT Kanpur, Mr. Bhupendra Dalwadi, Mr. Manish Shroff, and other dignitaries from Rotary and industries.



The vibrant cultural program began with students showcasing various music and dance performances. An impactful mime highlighting the misuse of mobile phones garnered applause from the audience. The choir captivated attendees, including dignitaries, with their melodious songs. The coordination of the fest was overseen by the Chemical Engineering Department and the Department of Mathematics, Science, and Humanities (MSH).



Other Activities

Academic Audit


An academic audit is a standard procedure carried out annually to assess the performance and practices of an academic department. On January 6th, 2024, the Chemical Engineering department underwent such an audit. During this process, peer experts closely observed and evaluated the department's activities conducted throughout the semester.



The audit included a comprehensive review of various aspects, such as curriculum delivery, research initiatives, student engagement, and administrative procedures within the department. The team from Chemical Engineering received positive feedback from the peer experts, who acknowledged and commended the efforts and achievements made by the department over the semester.



THINK LIKE A PROTON



-stay positive-

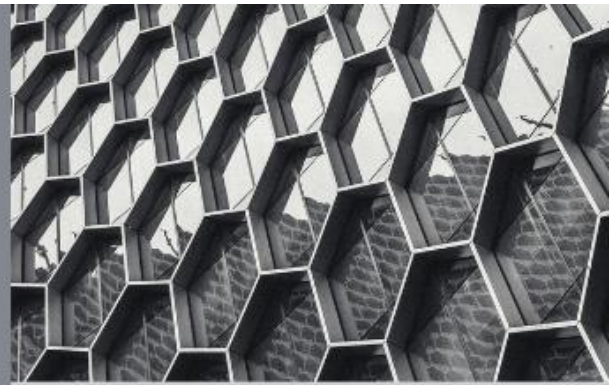
Chemical engineering is all about maximizing the efficiency of chemical processes while minimizing their impact on the environment.

At present, less than 30% of STEM researchers worldwide are women.



Frontiers in chemical engineering is proud to offer this platform to promote work of women scientists across field of chemical engineering.

-Keya Prajapati, B.E. Chemical Engineering, Semester-V



Women in Chemical Engineering.

Nowadays, Women plays a notable role in every field, even in engineering sector. Over the years, there has been a steady increase in the number of women entering the field. Programs aimed at encouraging girls to pursue STEM education have contributed to this stem.

Talking about history, Margaret Hutchinson Rousseau: She was the first woman to earn a doctorate in chemical engineering from MIT and is known for designing the first commercial penicillin production plant. She set a best example being a women.

Organizations like the Society of Women Engineers (SWE) and Women in Chemical Engineering (WICHE) provide support, networking, and advocacy for women in the field.

As a student of chemical engineering, I firmly believe that women can excel in any engineering discipline. The landscape is evolving rapidly, with more opportunities opening up than ever before. Companies are increasingly implementing family-friendly policies, such as flexible working hours and parental leave, to support women in achieving a harmonious balance between their professional careers and personal lives.

Prediction of Thermophysical Properties using ANN

- Dhruv Patel,

M.E. Semester-IV, Chemical Engg.,
UPL University

In chemical engineering, ANNs are extensively utilized for various applications, including process modeling, optimization, control, and fault diagnosis. By analyzing historical data and real-time inputs, ANNs can accurately predict process outcomes, identify potential inefficiencies, and suggest improvements.

During my M.E. dissertation program, I conducted research focused on synthesizing and characterizing green solvents, which are solvents designed to minimize their impact on human health and the environment. A comprehensive dataset comprising over 500 data points of density and viscosity was collected for these green solvents. Critical properties of these solvents, which are not readily available in literature, were determined using the group contribution method and Lee-Kisler Mixing rule. These properties served as essential input parameters for training an Artificial Neural Network (ANN) model. The ANN model was developed using the Neural Network Toolbox in MATLAB, where viscosity predictions of the solvents were the primary output. The model's accuracy and reliability in predicting viscosity demonstrate the potential of ANNs in enhancing predictive capabilities within chemical engineering applications.

Here, we present the output of viscosity of solvents.

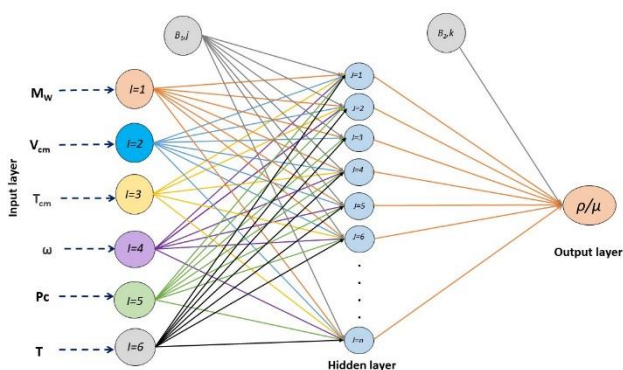


Figure: ANN articulation for predicting viscosity of green solvent

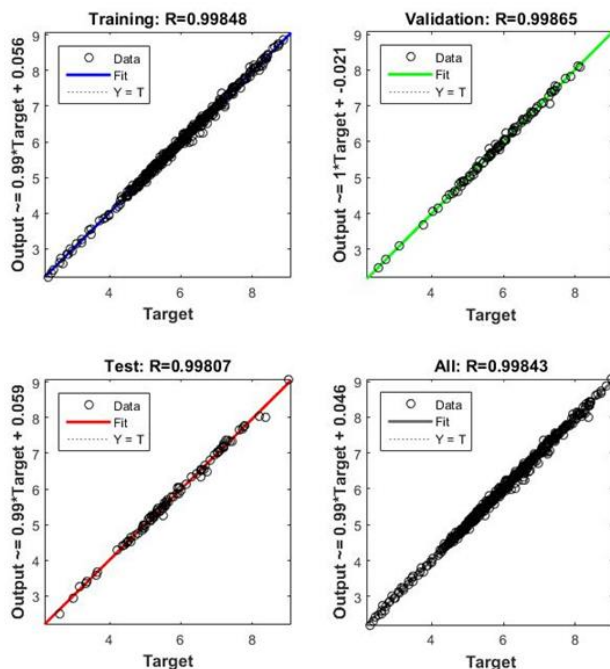


Figure: Regression plots of the ANN-viscosity model for DESs

The findings demonstrate the effective application of ANNs in predicting solvent properties, which has the potential to significantly reduce time and chemical consumption. This study highlights the pivotal role of ANNs in utilizing complex datasets to enhance solvent selection and design, thereby promoting sustainable practices within chemical engineering. As we continue to refine these methodologies, ANNs promise to play a crucial role in optimizing processes and driving innovation towards a more sustainable future.

References:

1. Krunal J. Suthar, Milind .H. Joshipura, Study on empirical models of isobaric heat capacities and conductivities for ammonium salt-based DESs, Chemical Engineering Journal Advances, Vol. 7, 15 Aug 2021, 100132
2. Hemant Kumar Balsora, Kartik S, Jyeshtharaj Bhalchandra Joshi, Abhishek Sharma, and Anand Gupta Chakinala, Artificial Neural Network-Based Models for the Prediction of Biomass Pyrolysis Products from Preliminary Analysis, Ind. Eng. Chem. Res. 2023, 62, 36, 14311–14319

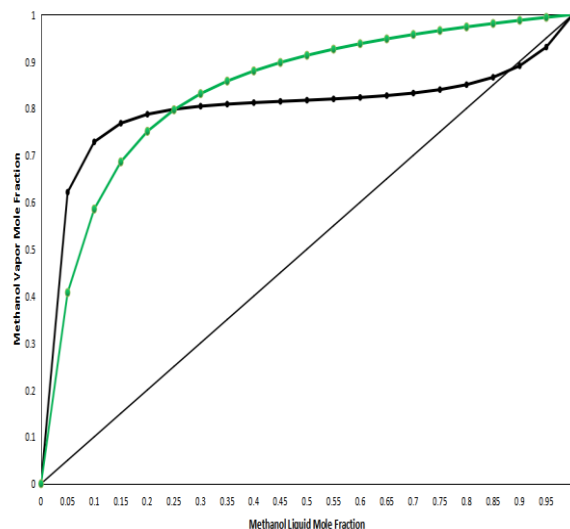
Enhancing Azeotropic Separation Using Environmentally Friendly Green Solvents: A Simulation-Based Approach

Nirmal Patel^a, Chintan Modi^b

^aM.E Semester-IV student, ^bAsst. Professor, Chemical Engineering

This study explores the potential of environmentally friendly green solvents for separating the binary azeotropic mixture using extractive distillation, as the binary mixture forms a minimum azeotrope. The primary aim was to design a process emphasizing three key factors: heat integration to minimize energy consumption, detailed cost estimation to assess the economic feasibility, and the use of green solvents that achieve high purity, with a target of 99.9 mol% purity of each component. By considering these crucial aspects in the process design, this research aims to develop an efficient and sustainable approach for separating the binary azeotrope.

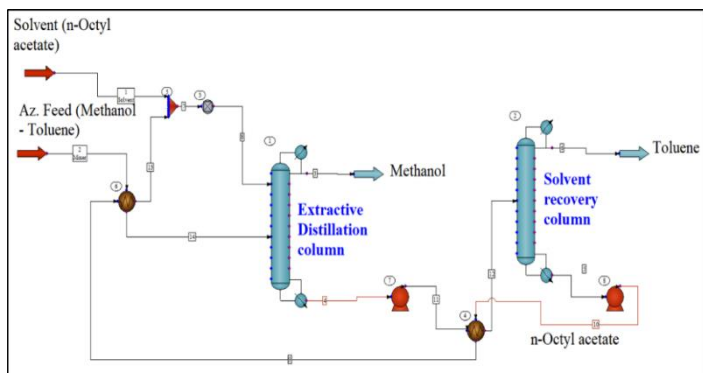
Using the CHEMCAD simulator, various process parameters such as solvent flow rate, reflux ratio, azeotrope feed stage, reboiler duty, condenser duty, and solvent feed stage were modeled and optimized through a sensitivity analysis. Furthermore, efficient heat integration was employed to minimize heat duties, which reduces up to 65 to 70% of reboiler duty for all the green solvents used. Additionally, total cost estimation provided valuable insights into the feasibility and effectiveness of employing green solvents for separating the binary azeotrope.



The results of this study demonstrate the potential of utilizing environmentally friendly green solvents in extractive distillation for separating the binary azeotropic mixture. The optimized process parameters, heat integration strategies, and cost analysis provide a comprehensive framework for implementing this approach in industrial settings, contributing to the development of more sustainable and efficient separation technologies.

References:

- Lin, K., Tsai, M., & Chien, I. (2020, November 1). Energy-efficient separation design of diisopropylether/isopropanol/water system having three distillation regions and liquid-liquid envelope. Elsevier BV, 251, 117292-117292
- Pacheco-Fernández, I., & Pino, V. (2019, August 1). Green solvents in analytical chemistry. Elsevier BV, 18, 42-50
- Suppino, R S., & Cobo, A J G. (2014, October 13). Influence of Solvent Nature on Extractive Distillation of the Benzene Hydrogenation Products. American Chemical Society, 53(42), 16397-16405
- Zhang, Y., Xu, X., Yang, H., Gao, J., Xu, D., Zhang, L., & Wang, Y. (2020, March 1). Separation of azeotropic mixture isopropyl alcohol + ethyl acetate by extractive distillation: Vapor-liquid equilibrium measurements and interaction exploration. Elsevier BV, 507, 112428-112428



Experimental Studies of Plastic Pyrolysis on Auger Reactor

Renuka Nasane, M.E. Semester-IV

Industrial plastic wastes have become one of the biggest global environmental issues and thus recycling of such massive quantities is required. Low-density polyethylene (LDPE), high-density polyethylene (HDPE), polypropylene (PP), and polystyrene (PS) are considered among the main types of plastic wastes found in the industrial plastic waste stream. Among the available technology, pyrolysis is one of the promising technologies which gives variety of fuel grade products. Pyrolysis is the heating of an organic material, such as biomass, in the absence of oxygen.

Several studies with batch pyrolysis are reported in the literature. However, studies on continuous reactors are missing in the literature. Experimental studies of plastic pyrolysis in auger reactors are essential for developing efficient and sustainable methods for converting plastic waste into valuable products while mitigating environmental issues associated with plastic disposal.



Pyrolytic oil

In the present work, auger based continuous pyrolysis for industrial plastic is studied. This study identifies optimal pyrolyser and melter temperatures of 475 to 500 °C for maximizing oil yield at 39%. This highlights the critical role of precise temperature control in optimizing oil production, offering insights to enhance the process's efficiency and economic viability, and guiding future research.



Three stage Auger Pyrolyzer

Auger reactors, which use a screw to convey a single feedstock or a blend with solid heat carriers down the length of a tube, are gaining attention not only for fast pyrolysis, but also for slow or intermediate pyrolysis.

VIEWS ON FUTURE OF CHEMICAL ENGINEERING & EDUCATION



Mr. Ashok Panjwani
President, UPL University

“ Navigating towards a future driven by sustainable technology, the future of Chemical Engineering promises innovation and local leadership. Invest in education that nurtures these pioneers for a greener, more advanced India



Prof. (Dr.) Shrikant Wagh
Provost, UPL University

“ Embracing innovation and sustainability, the future of chemical engineering education promises to shape tomorrow's leaders in green technology and global industry solutions



Dr. Avijit Ghosh
IICChE office bearer

“ Students are getting concerned about future prospects for chemical engineering careers, usually because of some downturn in the oil and gas markets. We should never stop emphasizing that chemical engineering is much more than oil, gas, and petrochemicals. In-fact, chemical engineers have the scope in many sectors including food, pharmaceuticals, alternative energy, environment, safety, consumer products, plastics, minerals, metals, paper & fibers, etc.

“ The future of chemical engineering is green and sustainable, with a focus on advanced simulations, AI, and improved separation techniques. Education must evolve to incorporate these elements, equipping students to drive innovation and address environmental challenges.



Mr. Chintan Modi
Asst. Professor, UPL University



Mr. A. I. Shaikh
Addl. GM, GNFC Ltd.

“ Chemical Engineering is a backbone of human existence and progressive development. A Chemical Engineer shall continue to thrive in this environment for the primary benefit of humanity and the globe as a whole. He is an ace in the shaping of future. Long live this architect.

Empowering Students Through Lab Assistance: A Conversation with Mr. Praful Mokadam



How do you assist students in conducting experiments and projects in the lab?

I guide students through lab procedures, ensuring they have the necessary equipment, and assist them in troubleshooting any issues that may arise. Additionally, I conduct safety briefings and address any questions to ensure students feel confident and well-prepared.

How important is it to ensure safety measures are followed in the lab environment?

Lab safety is paramount as it protects students, myself, and maintains the integrity of experiments. I enforce strict adherence to safety protocols and ensure meticulous handling of chemicals and equipment.

Hi.! My name is Praful, and I'm a Lab Assistant at the University. I'm passionate about science and enjoy supporting students in their academic journey. I have 12 years of experience working in a lab environment, and I'm always eager to learn new techniques.

What steps do you take to stay updated with advancements in chemical engineering research and experimental techniques?

I attend workshops, read research journals, and participate in online forums related to chemical engineering. This keeps me informed about new techniques and best practices, which I then share with students.

How do you ensure the quality and reliability of experimental results?

I emphasize following standardized procedures and meticulous record-keeping. I also help students calibrate equipment and identify potential errors. This meticulousness helps ensure the accuracy and reproducibility of their results.

How do you feel when you see students actively engaged and eager to perform experiments in the lab?

It is incredibly rewarding! Seeing their enthusiasm for scientific exploration motivates me to provide the best possible support. Their curiosity and dedication inspire me as well. Through hands-on experiment, student are able to understand better and students are curious to ask and know new things.

According to you, how important is it for engineering students to perform experiments seriously?

Hands-on experience is crucial. Experiments bridge the gap between theory and practical application. Taking experiments seriously allows students to develop critical thinking, problem-solving skills, and gain a deeper understanding of engineering principles.

INTERVIEW

Praful Mokadam
Laboratory Assistant,
Chemical Engineering
UPL University

ALUMNI | Column

Congratulations Vinay Kareliya..!!

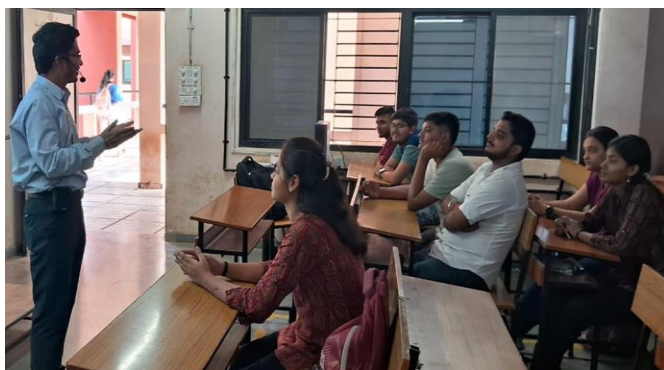
Vinay (Alumni from Chemical Engineering admission batch 2015) starting a new job as state tax officer (commercial & GST department) Govt. of Gujarat



Q: How challenging is it to adapt when your basic education differs from your profession?

A: Indeed, there are many challenges when you switch your profession from your basic education. It's like restarting a new life, where you have to rebuilt everything from scrap. However, the only driving force in this is your interest in a particular field which helps you to achieve your goal.

Our proud alumni, **Pranay Boradara** from Chemical Engineering, Pass out year 2017 talked to Diploma Semester-VI student. He shared his journey of how he diversified in his profession and kept working hard in whatever field he got in. At present, he serves as panchayat secretary and preparing for Civil Services.



Mr. Akhil Karkhanis (Alumni from BE Chemical Engineering) received StarSTAR OF SRICT - SILVER AWARD – Admission batch 2011. At present he is serving as Unit Head at ETL, Ankleshwar

Mr. Bhavik Mahant (Alumni from BE Chemical Engineering) received StarSTAR OF SRICT - SILVER AWARD – Admission batch 2013. At present he is pursuing PhD at IIT Madras.



ALUMNI | Column

Congratulations Mr. Manish Nasit, Alumni (Masters of Chemical Engineering, batch 2021-23)



He was awarded 1st prize in category of Modelling, Optimization & Intensification during 2nd International Conference On Green Technologies For Sustainable Development – 2.0. He presented his project work on "Adsorption of chromium from industrial wastewater by in situ formation of iron oxide particles: an approach for process intensification." under the guidance of Mr. Sunil Badgajar

Congratulations to our Chemical Engineering Alumni (Mr. Chirag Chavada, from admission batch B.E. 2012 and Ms. Shipra Gupta from B.E. admission batch 2014) for successfully completing Post Graduate Diploma Course in Process Safety from UPL University of Sustainable Technology



Chavada Chirag

PSM, UPL Unit-1

SPI : 9.88



Gupta Shipra

Maxpro, UPL Unit-5

SPI : 9.88



26th February: One to one meeting with our proud alumni working at UPL Unit 5 along with President, Mr. Ashok Panjwani, Chairman - Mrs Sandra Shroff & Unit Head of UPL Unit-5 - Mr Pravindan Ghadvi.



Post Graduate Diploma in Piping Engineering (Weekend classes - One year)

First batch of PGD – Piping Engineering starting soon. This specialized course has been meticulously designed to meet the specific requirements of working professionals in the field.

Recognizing the dynamic nature of the industry, our curriculum is crafted to impart practical knowledge and skills that are directly applicable to real-world scenarios. Whether you are already in the industry or looking to advance your career in piping engineering, this program offers comprehensive training tailored to enhance your expertise and career prospects.

Join now...!!



ADMISSION OPEN

POST GRADUATE DIPLOMA in Piping Engineering

COURSE HIGHLIGHTS:

- Piping Basics: Learn pipe types, fluid flow, heat transfer, insulation, and corrosion prevention.
- Fittings & Materials: Understand fittings, valves, materials, and instrumentation.
- Symbols & Standards: Master piping symbols, drawings, codes, and standards.
- Plant Layout: Explore layout considerations and hydrant system design.
- Fabrication & Welding: Understand fabrication, welding, and stress analysis.
- Safety & Case Studies: Focus on safety, emergency procedures, and real-world applications.
- Piping Software: Introduction to design software.

ELIGIBILITY:(ANY ONE OF THE BELOW MENTIONED)

- Diploma in Chemical / Mechanical/ Civil/ Environment Engineering with 3 years' experience.
- Graduation in Chemical / Mechanical/ Civil / Environment Engineering.
- Science graduate with 5 years' experience in Production / Project dept.

Apply Now

Specially designed
for working
professionals

Starting Soon

COURSE DURATION:

The course duration is of 1 year
(224 Hours) and will be
conducted on Saturday only.

Contact :

Mr. Chintan K. Modi
Assistant Professor,
UPL University of Sustainable Technology
Contact no : 8866413808
Email id : chintan.modi@upluniversity.ac.in



REGISTRATION

SCAN TO APPLY !

<https://forms.gle/iREsfA9WAgcZktny8>



www.upluniversity.ac.in



Block No. 402, At & Po- Vataria, Tal- Valia,
Dist-Bharuch, Gujarat



Stakeholders from various industries and academics meet to draft the piping engineering syllabus under the guidance of Prof. (Dr.) V.V. Mahajani



Certification Course on Chemical Plant Operator (Six-month course – Every Saturday)

Our six-month certification course in Plant Operations is currently underway and thriving. Classes are held every Saturday to accommodate working professionals. This program offers a balanced curriculum, combining essential theoretical knowledge with extensive hands-on practical training to provide participants with comprehensive industrial exposure.



Designed to meet industry standards, the course ensures a correct balance of foundational theory and practical application, equipping students with the necessary skills to excel in plant operations. We are now accepting registrations for the second batch; welcoming individuals keen to enhance their expertise and career prospects in the field of Plant Operations.



ACHIEVEMENTS

Two of our faculty members (Mr. Sunil Badgajar and Mr. Sudeep Wadia) along with two of our ME students (Dhruv and Nirmal) attended and presented their work during 2nd International Conference On Green Technologies For Sustainable Development, DDU, Nadiad. Also, Mr. Manish Nasit, alumni from ME Chemical Engineering 2021 Batch, presented his work under the guidance of Mr. Sunil Badgajar and he was awarded 1st prize in the category of Modelling, Optimization & Intensification.



A team of BE chemical engineering Semester-6 students won the first prize in an event blind Volleyball organised as a part of technical festival at SN Patel college, Bardoli. Over 20 teams from different colleges participated in the event.

ACHIEVEMENTS

Glimpse of Chemical Engineering Students participating and winning Various Sports Events



ACHIEVEMENTS

Dev Prajapati & Vishwam Patel from final year BE Chemical Engineering, participated in India's largest debate on the topic "Cast census is a national Interest" on 29th feb 2024 at Mewar University, Rajasthan who organized All India Shri Nandlal Gadiya memorial Debate-2024 where in students participated from 22 states which involve 400+ university students, 300+ Team for Hindi language.



Akash (BE-V) and Dipali Patel (BE-VII) from Chemical Engineering received Best Student Award during Annual Cultural Program – Reva Fest 2024



RECENTLY PUBLISHED TECHNICAL ARTICLES (Jan – June 24)

Sr. No.	Event attended/Achievement	Author
1	Practical exercises of computer-aided process synthesis for chemical engineering undergraduates, Education for Chemical Engineers 48 (2024) 31–43	Krunal J. Suthar, Swapna Rekha Panda, Hitesh Panchal, Rakesh Sinha
2	Process design for a low-cost portable green filter for water purification, 3 rd International conference on functional materials, manufacturing, and performances, Volume 2986, Issue 1, 20 February 2024	Swapna Rekha Panda, Sayan Chatterjee; Ram Singh Purty; Dishali Asrani; Prashant Kumar; Sudeep Asthana
3	Detailed analysis of downdraft gasifier using different parameters for biomass gasification: a review, EMERG: Energy. Environment. Efficiency. Resources. Globalization, 2024, Vol 10, Issue 1, p94	Endrick Contractor, Kushal P. Mehta, Aditi Thattil, Shina Gautam, Alok Gautam
4	Thermally Stable P(3HB) Synthesis from Cane Molasses by Co-culture of Alcaligenes sp. NCIM 5085 and Bacillus subtilis, Waste Biomass Valor 15, 3535–3552 (2024).	Rekha Kanzariya, Alok Gautam, Sachin Parikh & Shina Gautam
5	Process Intensification in the fields to separate, recycle and reuse wastes through Membrane Technology, Environ. Sci.: Water Res. Technol., 2024	Swapna Rekha Panda, Sudeep Asthana, Krunal J. Suthar, Arvind Madalgi, Amit Kumar, Haresh Dave, Rakesh Sinha, Koshal Kishor and Ahmad Ismail



Journey to Academic Success at UPL Hostel

During my initial semesters, I faced challenges with backlogs in many subjects. Following a one-to-one meeting with President Sir, I was advised to shift to the UPL hostel before the end-semester backlog exams. Embracing this advice proved invaluable as it facilitated my successful clearance of all backlogs on the first attempt.



Residing in the hostel provided me with an environment conducive to focused studying. Within the hostel environment, I was able to fully concentrate on my academic endeavors, with the added support of faculty members available on campus.

Presently, I maintain a 7.14 CPI with no backlogs. This newfound academic success has enabled me to pursue other activities with a clear focus, free from the burden or tension of backlogs.

I am grateful for the guidance and support received, which have played a pivotal role in my academic achievements.

- Milind Joshi, B.E. Chemical Engineering, Semester-VI

From ITI to Diploma Engineering: A Pathway to Success



After completing certificate course from Industrial Training Institute (ITI) Ankleshwar, I enrolled in UPL University of Sustainable for Diploma – Chemical Engineering (CtoD). Now, as I near the final semester of Diploma program, I reflect on an exhilarating journey filled with invaluable learnings. The dedicated faculty, their guidance, and industrial exposure have equipped me with confidence to excel in the industry.

With a Semester-5 SPI of 9.48, I am ready for the final stretch. Looking ahead, I aim to enroll for Diploma to Degree (DtoD) program at UPL University for a promising future. I am confident that the resources, opportunities, and environment provided by UPL University will continue to nurture my growth and pave the way for success in my career.

- Axraj Sindha, Diploma Chemical Engineering, Semester-VI



Student's Corner

Empowered Learning: My Experience at UPL University

Hello everyone,

I am Sakshi Dighe, a proud graduate of Diploma in Chemical Engineering from UPL University of Sustainable Technology.

UPL University of Sustainable Technology is renowned for its commitment to innovation and excellence. During my time at UPL University, I had the opportunity to participate in various enriching experiences such as Peer Learning Initiatives, Expert Lectures, Felicitation Programs, industrial visits, 1-1 meetings with University's President – Panjwani Sir, and more. These experiences significantly enhanced my skills in presentation, body language, and overcoming stage fear.



The university boasts excellent facilities including well-equipped laboratories, modern classrooms, transportation services, a canteen, and a library stocked with academic resources and sports equipment. Beyond academics, the university emphasizes co-curricular activities through events like Reva Fest, Technovation, Cultural Week, and Winstinct.

The Diploma in Chemical Engineering program at UPL University is not merely a curriculum; it is a transformative journey that equips students with both theoretical knowledge and practical expertise. The dedication of the faculty to nurturing future leaders is evident in their engaging lectures, informative lab sessions, and challenging projects. The use of case studies and real-life examples further enriches the learning experience, making complex concepts easier to understand.

I would like to express my heartfelt gratitude to entire fraternity of Chemical Engineering Department for their unwavering support and guidance. Their dedication has provided me with a wealth of knowledge and has played a crucial role in shaping a bright future for me. I feel happy to join back University as Diploma to Degree student.

Best regards,
Sakshi Dighe



Student's Corner

Navigating Career Success: Industry-Institute Collaboration in Chemical Engineering

As a chemical engineering student, my journey is defined by continuous learning and growth. Through internships and expert lectures, I bridge the gap between classroom knowledge and real-world applications. These interactions with industries help me understand how theoretical concepts translate into practical solutions. Engaging with professionals in the field allows me to build a valuable network, gaining insights into industry trends, technologies, and innovations. This exposure enhances my competitiveness as a prospective job candidate while benefiting my institution.

The industry-institute collaboration plays a crucial role in preparing me for a successful career. It equips me with the necessary skills, knowledge, and connections to thrive in my field. I am enthusiastic about the opportunities this partnership provides and look forward to the future it holds. In conclusion, the synergy between industry and academia is pivotal in shaping both my academic journey and professional development. Collaboration between students, institutions, and industries fosters a mutually beneficial relationship, laying the foundation for a rewarding career path.

Vinayak Sonawane
B.E. Chemical Engineering
Semester-VI

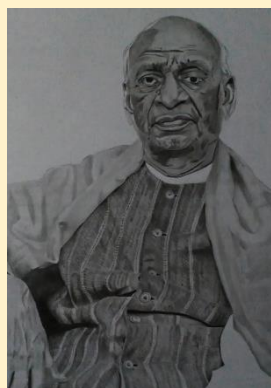
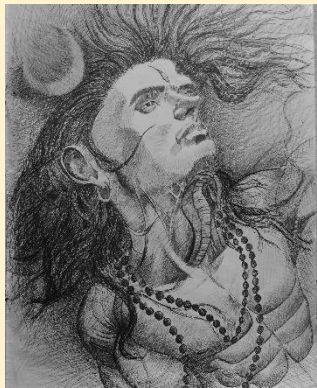


Let us encourage each of us, along with our families, to plant at least one tree this monsoon in our homes or neighborhoods and share photos in positive news groups to inspire others.

Celebrating World Environment
Day 2024

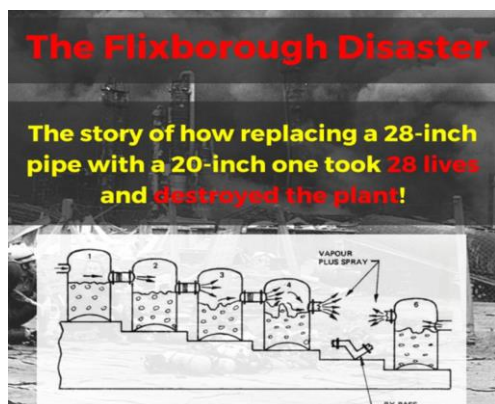


Student's Corner



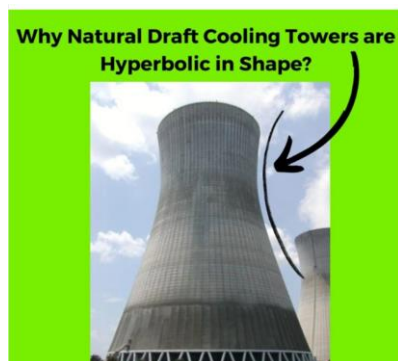
**Free hand Sketches by
Mahesh Pal
(BE Sem-VII)**

Do you know?



In 1974, at Nypro Factory in Flixborough, UK, a temporary 20-inch pipe, poorly supported and prone to movement due to design flaws, replaced a cracked reactor in a caprolactam manufacturing plant. This modification led to the catastrophic release of 50 tons of hot cyclohexane, which exploded upon mixing with air, resulting in 28 fatalities and the complete destruction of the facility.

The hyperbolic shape of cooling towers enhances natural draft efficiency by maximizing air intake through a large base area and optimizing air flow dynamics as warm air rises. Structurally, it provides robustness by evenly distributing loads, offering self-supporting strength, aerodynamic stability against wind, and ensuring long-term durability and efficient cooling performance.



India aims to save \$4 billion annually through achieving 20% ethanol blending by 2025/26, up from the current 10% (E10). Ethanol blending reduces emissions, enhances energy security, saves foreign exchange, improves air quality, and boosts farmers' income. Challenges include water usage for biofuel crops, capacity limitations in bio-refineries, and potential impacts on food security and costs associated with separate ethanol-petrol storage.

Source: *What Went Wrong? Case Studies of Process Plant Disasters, 4th Edition - June 23, 1998 by Trevor Kletz*

By Utsav P. Patel (B.E. Sem-VIII)

FROM THE DESK OF EDITOR..



The 13th issue of CHEMEZINE (Chemical Engineering e-Magazine) presents the activities conducted throughout the semester. We celebrated Republic day, Sports day, IChE activities, various technical workshops and many other events during the last semester along with various co-curricular activities. We tried covering most of our activities. Thanks to all our stakeholder for their contribution.

Looking ahead, we encourage even greater participation from all stakeholders. We invite unpublished, intriguing articles from students and staff members of the Chemical Engineering department. The upcoming Winter 2024 session promises more exciting activities and opportunities. With new students joining us, we eagerly anticipate fresh ideas and enriching content for our upcoming 14th issue. Happy reading, and we look forward to hearing from you..

Upcoming Eventing	Tentative date
One day Seminar on corrosion	20 th July 2024
One day hands-on workshop on heat integration using HINT	23 rd August 2024
IChE Student executive committee meet	14 th August 2024
Students-Alumni Interaction: Meeting Chemical Engineering Alumni	30 th August 2024
Faculty Development Program on Process Optimization	09-13 September 2024
One day workshop – MS Excel for Chemical Engineering	20 th September 2024
Parent Teacher Meet	05 th October 2024
One day workshop – ChemCad (Process Simulator)	25 th October 2024
Refresher course for industrial personal – Process Safety	07 th December 2024

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Asst. Prof. & Head

Department of Chemical Engineering



Shroff S. R. Rotary Institute
of Chemical Technology



Indian Cricket team brings happiness to a billion plus people.

Beyond Boundaries: Lessons from the 2024 T20 Cricket World Cup Final

SELFLESS Rohit Sharma Leadership, FOCUS and BELIEVE in GOD innings by Virat Kohli despite all the noise on his form, ONLY PERFORMANCE matters as proved by Hardik Pandya despite his Mumbai Indians captaincy debacle, RISE TO THE OCCASION as Axar Patel did, MINDFULNESS which Surya Kumar showed with a divine winning catch and above all CONSISTENCY and RELIABILITY which is Bumrah. ONLY TEAM WINS..

Happy Monsoon

