



# RADIANCE

## CHEMICAL ENGINEERING E-NEWSLETTER



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### WEL COME TO THE NEW HEAD OF DEPARTMENT

We are delighted to welcome, our new Head of Department Prof. (Dr) Femina Patel. , She is appointed as a Professor in Chemical Engineering at VGEC by Education Department of Government of Gujarat.



(Dr. Femina J. Patel)

She has done her graduation and post graduation in Chemical Engineering from DDIT, Gujarat. She subsequently did her PhD from the Faculty of Doctoral Studies, Nirma University, in the field of Chemical Engineering in the broad area of Synthesis and Characterization of Perovskite based Catalysts for Automotive CO Oxidation. Dr. Patel has about 20 years of teaching experience and has guided a number of undergraduate and postgraduate projects, with a number of publications in national and international journals and conferences to her credit.

Her research interests include Heterogeneous Catalysis, Automotive Emission Control Technology and Waste Water Treatment Technology. Department is looking forward to a bright future with her leadership.

### VISION AND MISSION OF DEPARTMENT

#### DEPARTMENT VISION

To foster vibrant environment for creating professional chemical engineers with integrity and ethics.

#### DEPARTMENT MISSION

1. To develop open access laboratories and infrastructure for conducive learning.
2. To enhance the professional engineering skills along with entrepreneurship, innovativeness and management.
3. To strengthen linkages with industries, alumni and professional bodies.
4. To undertake industry collaborative projects and research.
5. To inculcate professional ethics and make socially responsible engineers.

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## DEPARTMENT ACTIVITIES

### STUDENT- FACULTY INTERACTION PROGRAM



On 11<sup>th</sup> December-2018, Department organized a student faculty interaction program at J- block, Homi Bhabha seminar hall of VGEC. The key objective of the program was to make the students familiar with all the faculties of the department and to know about their research area of faculties. All students of first year had attended the programme with full enthusiasm. Dr. Femina Patel, Professor and Head of Chemical Engineering Department, delivered a motivational speech to encourage the students to involve in different teaching-learning and research related activities from first year and regularly interact with the faculties. All faculty members of department discussed their research area with students. Dr. Kamlesh Gurjar (Faculty adviser first year), delivered the vote of thanks .

## STUDENT ACTIVITIES

### GANDHI JAYANTI CELEBRATION



On the occasion of 'Gandhi Jayanti' (2/10/2018 ) this year, Chemical Engg. Department students had actively participated in Bicycle Rally (from GTU to Sabarmati Ashram) and Poster Making Competition. Organized by Institute.



### NSS ACTIVITY 'JOY OF GIVING'



### GTU CULTURAL FEST



### INDUSTRIAL TRAINING/ INTERNSHIP

Following students had done winter internship in the various chemical industries :

Name of Student	Semester	Industry	Name of Student	Semester	Industry
Nidhi Parmar	5	Reliance Ltd. Patalganga	Harsh Lakhani	5	DCW Dhangandhra
Mayank Rajput	5	GFL, Vadodara	Dhaval Chauhan	5	DCW Dhangandhra
Shah Shubham	5	GFL, Vadodara	Marut Patel	5	ONGC, Mehsana
Parth Patel	5	Shiv Pharma, Vadodara	Mit Patel	5	Jonson Dyes Ankleshwar
Pranav Rana	5	Shiv Pharma, Vadodara	Yash Kinderkhedia	7	GNFC, Bharuch
Sanjay Mahida	5	Shiv Pharma, Vadodara	Parth Shah	7	ONGC, Chandkheda

### RESEARCH ACTIVITIES

Following are ongoing research projects of M. E. Chemical Engineering students:

Sr. No.	Title of Project	Name of Student	Name of Faculty Guide
1	Removal of total Chromium ions from effluents using electro coagulation	Yash Amin	Prof. B. K. Sheth
2	Oxy rich fuel furnace design and optimization using CFD tools	Rashmi Chaudhri	Dr. N. M. Patel
3	Multi phase generalized reactor modeling for chemical and petrochemical Reactors	Kaushik Joshi	Dr. D. D. Mandaliya
4	Study of removal of heavy metals from waste water by adsorption	Rakesh Merchant	Prof. Z. Z. Painter
5	Extraction of cumin seed essential oil by microwave irradiation and emulsification of essential oil	Harshita Patel	Prof. D. R. Gandhi
6	Attainable Region: Productivity-yield for Fed-Batch Reactor	Krishan Patel	Dr. N. M. Patel
7	Molecular event based kinetics modeling of oxidative coupling of Methane	Kajal Purohit	Dr. D. D. Mandaliya
8	Conventional vs Microwave Heating: Comparative study of the effect of process parameters on biodiesel yield using Non-edible Neem oil	Devarshi Tadvi	Prof. M. G. Nayak
9	Synthesis of clay based catalyst and its performance analysis in esterification reaction	Vaibhav Shinde	Prof. D. R. Gandhi
10	To study the effect of alkylated group on coating film properties for wood coating	Hitesh Variya	Prof. S. A. Amin
11	Modification of Indian clay for further Application in Catalysis	Vatsal Pandya	Prof. D. R. Gandhi

## FACULTY ACTIVITIES

Name of Faculty	National/ International	Title of Paper	Publication in Book/ Journal/ Conference/ Seminar	Name of Book/ Journal/ Conference/ Seminar
Prof. S. A. Amin	International	Multi Objective Dynamic Optimization Study of Butylated Urea Formaldehyde Resin Process in a Batch Reactor	Journal	IFAC-Papers On Line, Volume 51, Issue 18, 2018, pp. 780-784
Prof. N. M. Sharma	International	A study on the corrosion inhibition of mild steel by N'-(E)-phenylmethylidene] pyridine-3-carbohydrazide in acidic medium	Conference	Recent Trends and Experimental Approaches in Science, Technology, Nature and Management

## CREATIVE CORNER



By: BHAVSAR YASH (3<sup>rd</sup> Year, Student)

### EDITORIAL TEAM MEMBERS

<b>Mentor</b>	Prof. S. A. Amin, Associate Professor
<b>Editor</b>	Prof. U. P. Christian, Assistant Professor
<b>Student Editors</b>	Mr. Prabhat Singh (3 <sup>rd</sup> year) & Mr. Mayank Rajput (3 <sup>rd</sup> year)
<b>Student Members</b>	Mr. Harshit Raval (4 <sup>th</sup> year), Mr. Mit Gohel (1 <sup>st</sup> year)

### CONTACT US:

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