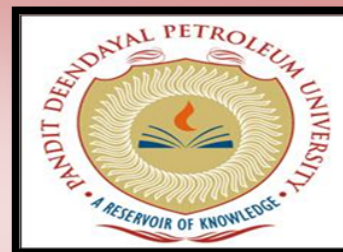




## MIRROR VOLUME 11 2017-18



### ***From the Director's Desk... TO NEW BEGINNING!!!***

*A briskness in the air, a spring in the step and a lightness in the mood - come winter and a celebratory mood sets in. It has always been my firm belief that no achievement-academic, personal or material can be fruitful if we have not learnt to experience the joys of life and living. It is this spirit that determines our quality of life.*

*A word of advice to our young and budding graduates in the making: your hard work does not end here; it is entirely your interest, participation and the inquisitive thirst in you to acquire knowledge that is going to make you a true PDPUIAN. This span of your student life should not pass without knowing life in its beauty and challenges. Let us join our hands in taking the Institute to new heights. I hope your stay here in PDPUI will add to your rich repertoire of experiences. Here's wishing you the very best as a new chapter in your life begins.*

*PDPUI has always worked to provide a world class education which has proved to be challenging. The university today has metamorphosed into a preeminent institution with significant national and international visibility.*

*I take this opportunity to congratulate the editorial team for bringing out this newsletter, which in itself is an achievement considering the effort and time required. May all our students soar high in uncharted skies and bring glory to the world and their profession with the wings of education.*



*Dr. T.P. Singh  
Director  
School of Technology*

### **ACHIEVEMENTS AT PDPUI!!!**

#### **SIMULATOR TRAINING PROGRAMME AT PDPUI**



*Training program on unit operations was organized by Chemical Engineering Department on 23<sup>rd</sup> and 24<sup>th</sup> February, 2018. The objective was to enhance learning sessions on virtual control of the industrial complex process operations through digital simulator.*



#### **SHORT TERM TRAINING PROGRAMME AT PDPUI**

*Instrumental methods of chemical analysis- A skill development for chemical and pharmaceutical Industries was organized by Science department funded by Thermo Fischer Scientific, Metrohm and DP Analytics. The training program was organized during 25<sup>th</sup> - 29<sup>th</sup> June, 2018.*

## INDUSTRIAL AND ORGANIZATION VISITS!!!

Sr.no.	Name of Company	Date of visit	Batch	Branch	No. of students
1	IFFCO (Kalol)	23 <sup>rd</sup> February, 1 <sup>st</sup> March, 2018	2016-2020	Chemical	70
2	Bisag	21 <sup>st</sup> March, 2018	2016-2020	Computer	82
3	Jay Chemicals	24 <sup>th</sup> March, 7 <sup>th</sup> April, 9 <sup>th</sup> May, 2018	2016-2020	Chemical	70
4	Comed Chemicals	20 <sup>th</sup> - 21 <sup>st</sup> April, 2018	2016-2020	Chemical	70
5	Punsari village	25 <sup>th</sup> April, 2018	2016-2020	Computer	82
6	RTTC, BSNL	27 <sup>th</sup> April, 2018	2016-2020	Computer	82
7	GEB Gandhinagar	4 <sup>th</sup> April, 2018 and 25 <sup>th</sup> July, 2018	2016-2020	Electrical	135
8	Thermax	24 <sup>th</sup> April, 2018	2016-2020	Industrial	66
9	Rabatex Ltd	7 <sup>th</sup> April, 2018	2016-2020	Industrial	66
10	Bosch	6 <sup>th</sup> April, 2018	2016-2020	Mechanical	158
11	Sainest Tubes	25 <sup>th</sup> and 27 <sup>th</sup> April, 2018	2016-2020	Mechanical	158
12	RTTC, BSNL	20 <sup>th</sup> April, 2018	2016-2020	ICT	70

### *“Plant a Tree, Plant a Life”*

*Institution of Civil Engineers, PDPU!! – A student chapter along with two other clubs, Elemen Tree and Enviro freaks organized a tree plantation drive named “Plant a Tree, Plant a Life” on the occasion of 72<sup>nd</sup> Independence Day (15<sup>th</sup> August 2018) at Pandit Deendayal Petroleum University, Gandhinagar. The main aim of the event was to create awareness about the importance of plants and trees in our life among the students and to provide them a means to contribute towards green earth by planting a tree and paying tribute to our freedom fighters who sacrificed their lives for the Independence of India. RJ Vashishth from Radio Mirchi 98.3 FM was invited to this event as a special guest. Members of Green Gang (Faculties and ex. students of DPS School, Gandhinagar) also came to our campus for planting trees and showed the support towards the event. The event was a huge success as many students and faculties of PDPU actively participated in the program and planted tree saplings to achieve the 200 mark !!!!*

*Grant by DST under Early Career Research Award (Earth and Atmospheric Sciences)*

*Dr. Rohit Srivastava had received a grant of 20.7 Lakhs for 3 years project entitled “Studies of heterogenous precipitation patterns with the help of aerosol-cloud properties: Focused on western India and Arabian Sea”.*

### *Industry funded project*

*Dr. Rajesh Gujar and Dr. Ashish Unnarkat from Civil department had received industry funded research project “Synthesis of colored and allied products-PMB and Emlsion” worth Rs.5 lakh in collaboration with Tiki Tar Industry, Halol, Vadodara. This project is towards the development of product along with industry and cost towards this project will be borne by the industry.*



## FACULTY ZONE

*1. Prof. Surendra Singh Kacchawaha is elected as “Chair Professor Suzlon” since March 2018.*

*2. Dr. H R Dhananjaya, Associate Professor, Department of Civil Engineering, SOT, has delivered three expert lectures on Alternate Finite Element Method in six day Short Term Training Program (STTP) on “Finite Element Method and Applications in Civil Engineering” held during 4-9 June 2018 at Charotar University of Science and Technology (CHARUSAT), Gujarat.*

*3. Dr. Nagababu Garlapati, Assistant Professor, Department of Mechanical Engineering, SOT received International travel grant from SERB, Govt. of India under the Young scientist category to attend ASME 2018, 37<sup>th</sup> International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018) held at Madrid, Spain in 2018.*

*4. Dr. Debasis Sarkar, Associate Professor, Department of Civil Engineering, received “Best Paper Award” at 20<sup>th</sup> International Conference on Civil Engineering and Architecture, Berlin, Germany, May 24<sup>th</sup> -25<sup>th</sup> , 2018.*

*5. Dr. Samir Patel has been elected as Chairman, Computer Society of India, Ahmedabad Chapter (April 2018- March 2019).*

*6. Mr. Santosh Bharti has been elected as Managing Committee member, Computer Society of India, Ahmedabad Chapter. (April 2018- March 2019).*

*7. Dr. Tejaskumar Thaker and Dr. Rajesh Gujar, faculty members of Civil Engineering Department have been appointed as reviewer for First International Conference on Innovations in Infrastructure (ICIIF 2018) sponsored by Department of Science and Technology (DST) India held during 18-19 May, 2018 at Institute of Infrastructure Technology Research and Management, Ahmedabad .*

*8. Dr. Tejaskumar Thaker has been appointed as reviewer of International Journal “Geotechnical and Geological Journal” by Springer publications.*

*9. Dr. Dhruvesh Patel has been nominated as Guest Editor of “Natural Hazard and Earth System Science” (NHESS), special issue of “Flood Risk Assessment and Management”, 2018.*

*10. Dr. Tejaskumar Thaker and Dr. Manas Bhoi are nominated as Executive Committee member for Indian Geotechnical Society, Ahmedabad Chapter.*

*11. Dr. Swapnil Dharaskar filed an Indian Patent along with research colleague Dr. P. R. Tayade. The title of the Patent is "Pollutant Controlling system for Vehicles" with the patent application no. 2018210221239 A dated on August 22, 2018. He has been appointed as a subject expert (DPC member) for the continuous evaluation of the Ph.D. Scholar for batch 2017-2018 in Department of Chemical Engineering, VVP Institute of Engineering and Technology and Editorial Board Member in American Journal of Chemical Engineering (ISSN: 2330-8613), June 2018. He also received outstanding reviewer recognition from American Chemical Society (ACS, Publishers) USA, May 2018 and received reviewer recognition from Elsevier B.V. The Netherlands, May 2018.*

*12. Prof. Rajib Bandyopadhyay, Head of Science Department chaired a session in ZMPC 2018 Conference, Yokohama Japan during August 5-9, 2018. He also delivered a lecture entitled, "Solvent free oxidation of toluene over copper impregnated MCM-22".*

*13. Dr. Sukanta Kumar Dash filed an Indian Patent along with his PhD student Mr. K. K. Parmar (and other colleagues from RIL) out of the PhD research work. The titled of the Patent is "Process for improving the yield of light olefins produced from heavy naphtha" with the patent application no. 201821027227.*

*14. Dr. Manish Kumar Sinha, published a book titled "Stimuli Responsive Polymeric Membrane" published by Academic Press, Elsevier.*

*15. Dr. Ashish Unnarkat, organized one day workshop on "Piping and pipeline engineering" on September 06, 2018 in association with Reliance industries.*

*16. Dr. Suverna Trivedi became an editorial board member of "Journal of chemical research and application" in July 2018.*

## BEST PAPER AWARD



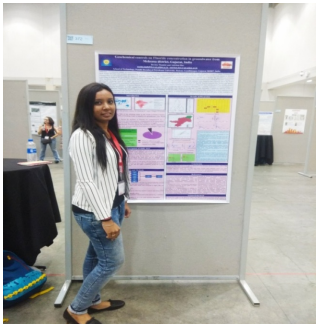
*Ruchita Shah (Research Scholar under the guidance of Dr. Rohit Srivastava) got Best Paper Award (physics) on “The 3<sup>rd</sup> International Conference on Natural Science and Applied Mathematics”, held at Czech Technical University, Prague during 15-18<sup>th</sup> June 2018. She presented her research work entitled “Evaluation of Reg CM 4.4 to get cloud and monsoon features with seasons over India”.*



*Devanshi Dave (Research Scholar under the guidance of Dr. Brajesh kumar Jha) got Best Paper Award (Mathematics) on “The 3<sup>rd</sup> International Conference on Natural Science and Applied Mathematics”, held at Czech Technical University, Prague during 15-18<sup>th</sup> June 2018. She presented her research work entitled “Study of calcium distribution in Alzheimer’s disease using finite element technique”.*

*Ms. Aneri Patel, M. Tech Chemical Engineering (2018 pass out batch) under the guidance of Ms. Bharti Saini, had achieved 3<sup>rd</sup> position in Research Paper Presentation in 5 Day Workshop on Urban Environmental Challenges: Intervention through Education Research and Policy at PDPU Gandhinagar, 15-19<sup>th</sup> March 2018.*

## GRANT AWARD FOR THE CONFERENCE



*Reema Mandal (Research Scholar under the guidance of Dr. Anirban Das) had received a grant (515 USD) from the organizers of Goldschmidt 2018 conference held during 12-17<sup>th</sup> August in Boston, USA. She presented her research work on the topic “Geochemical controls on fluoride concentration in Groundwater from Mehsana District, Gujarat, India.”*

## RESEARCH IN PRESS!!!

**વડોદરાની ભૂમિ પર રિસર્ચ કરનાર રિસર્ચ સ્કોલરે કહ્યું ‘ભૂકંપ નહીં, પરંતુ ભૂકંપ સહન ન કરી શકે તેવા બાંધકામ વિનાશ લાવે છે’**

(પ્રતિનિધિવાર) વડોદરા, મંગળવાર કુદરતના પ્રકોપથી ભયી શકાતુ નથી પરંતુ ટકી શકે તેવા બાંધકામ કરીએ તો વિનાશની શક્યતા ઘટાડી શકાય છે. અને વડોદરા વિકસતુ શહેર છે તેને ધ્યાનમાં રાખીને મેં વડોદરાની જમીન પર ભૂકંપની શક્યતાઓને ચકાસવા રિસર્ચ કર્યું છે તેમ અમદાવાદની પીપીપીયુ (પૉલિન ઇન્ટરનાશનલ પેટ્રોલિયમ યુનિ.)ના સિવિલ એન્જિનિયરિંગના રિસર્ચ સ્કોલર પાયલ મહેતાએ કહ્યું હતું.

ભૂકંપની શક્યતાઓ ચકાસતુ રિસર્ચ પેપર આંતરરાષ્ટ્રીય પરિષદ ‘જીઓ શાંઘાઈ ૨૦૧૮’માં રજૂ કરાયું

શહેરમાં પ્રથમવાર આ પ્રકારનું રિસર્ચ કરનાર પાયલે કહ્યું કે વડોદરાની નજીક કેએ, સન નર્મદા અને તાપી જેવી ત્રણ કોલ્ડ લાઈન આવેલી છે.

ભૂકાળમાં આ લાઈન પર અને તેની આસપાસના વિસ્તારમાં પ. ટની તીવ્રતાના ભૂકંપ આવેલા છે. અને હજુ પણ ભૂકંપ આવે તેવી શક્યતાઓ છે. ભૂકંપની શક્યતાઓ ચકાસતુ રિસર્ચ પેપર ચીનના શાંઘાઈમાં યોજાયેલ આંતરરાષ્ટ્રીય પરિષદ ‘જીઓ શાંઘાઈ ૨૦૧૮’માં રજૂ કરાયું હતું. દર ચાર વર્ષે આ પ્રકારની આંતરરાષ્ટ્રીય કોન્ફરન્સ આયોજન કરવામાં આવે છે. જેમાં આ વર્ષે



૧૦ દેશના સંશોધકો, વિજ્ઞાનિકો તેમજ અધ્યાપકો આવ્યા હતા.

## Media coverage!!!!

*Research work led by Dr. Tejaskumar Thaker and his team on “Earthquake Risk Assessment of Ahmadabad Region” is recognized by Times of India and published an article in newspaper!! Based on the theme of this research, Ms. Payal Mehta (Research Scholar) and Mr. Raviraj Dave (B.Tech Alumni) presented three papers at the International conference (Geoshanghai 2018) at Shanghai, China during May 27-30, 2018.*





**“Invited talk at GIDM,  
Gandhinagar”.**

*Invited talk on climate change and its impact on childrens” coordinated by UNICEF and SDMC (IV) given by Dr. Rohit Srivastava on September 5, 2018 at GIDM, Gandhinagar.*

**“Urban & Rural land economics”**

*Expert lecture titled “Urban & Rural land economics” delivered by Dr. Rajesh Gujar on January 28, 2018 for Master of valuation students at Khyati foundation, Ahmedabad.*

**Expert Lecture**

*Dr. Tejaskumar thaker has delivered an expert lecture on subsoil exploration: Indian and global practices in short term course on “Groundwater improvement techniques for problematic soils” held during 10-12<sup>th</sup> September, 2018 at Indus University, Ahmedabad. He also delivered lecture on Geotechnical exploration and practices dated 22<sup>nd</sup> March, 2018 in 5 Day STTP entitled “Geotechnical Investigations for Infrastructure Development -2018 (GIID-2018) during March 19-23, 2018 and “Seismic Microzonation and Hazard Studies” dated 22<sup>nd</sup> March 2018 in 5 Day STTP entitled “Geotechnical Investigations for Infrastructure Development -2018 (GIID-2018)!!!*

**Drawing competition!!!!**

*Institute of Civil Engineering, PDPU student chapter has organized “Plan Master – An AutoCAD Drawing Competition” on 20<sup>th</sup> April 2018!!!*

**Flooding in cities, warning and dissemination**

*Dr. Dhruvesh Patel, from SOT delivered an expert lecture in 2 days workshop on “Flooding in cities, warning and dissemination” on “Flood Assessment through Remote Sensing, GIS and Hydrodynamic Techniques-A Case study of Surat City” at SVNIT, Surat, during 20-21 August 2018.*

**Seminar arranged by Civil Engineering Department at IIT Gandhinagar**

*Dr. Tejaskumar Thaker, Department of Civil Engineering arranged seminar at IIT Gandhinagar on the occasion of IGS Ahmedabad Student Chapter Inauguration ceremony dated 24<sup>th</sup> February, 2018.*

**WORKSHOP/TRAINING**

**Two-day workshop on Plotting of Foundation Plan!!!**

*Dr. Apurva Dave, Department of Civil Engineering organized a workshop on plotting of Foundation plan on March 23-24, 2018.*



**VISSIM software training workshop**

*Department of Civil Engineering has organized two days workshop on 2<sup>nd</sup> and 3<sup>rd</sup> April 2018. Students of M.Tech and B.Tech of Civil Engineering along with faculty members have attended the workshop.*

**“Modelling and simulation aided computations”**

*Two days workshop on Modelling and simulation aided computations was organised by Dr. Anirban Dey and Sweta Balchandani, Department of Chemical Engineering, 16-17<sup>th</sup> March 2018.*

**Skill development workshop on manufacturing – 2018**

*The workshop was organized by Prof. Vishvesh Badheka and his Department of Mechanical Engineering during June 4 - 8, 2018.*

**Edited by**

*Faculty Advisor: Prof. Rajib Bandyopadhyay.*

*Student Support: Ms. Reema Mandal.*