It is pleasure to release this issue (2018/19, issue 2) of department e-newsletter. One more semester with full of good activities and events. Every year between 12 to 18 February, National Productivity Week is celebrated across the nation by National Productivity Council (NPC), New Delhi. NPC, Gandhinagar approached GCET to celebrate the same in the institute considering our successful organization of the events in past. Topic for this year as decided by NPC was “Circular Economy for Productivity & Sustainability”. Apart from this many other events were organized on variety of topics as presented in this issue. This issue is also featuring experience sharing by one of the esteemed alumni Prof. Vivek Patel (2009 entry in BE and 2013 entry in ME (Ind. Engg.) who is one of our colleagues at present and editor of this e-newsletter. We are very eager to have such memory sharing from all our alumnae.

Department Updates
1. Expert talk on “Fundamentals and Advances in Friction Stir Welding” by Dr. Vishvesh Badheka

An expert talk was organized by Mechanical Engineering Department. Dr. Vishvesh Badheka, Professor and Head, Mechanical Engineering Department, Pandit Deendayal Petroleum University, delivered a talk on the theme of “Fundamentals and advances on friction stir welding process”. He delivered his lecture on the friction stir welding process, additive metal deposition using welding and surface hardening of metal using friction welding. Students of 2nd-year mechanical engineering attended the session from 10:30 am to 12:30 pm on 30th March 2019.

“Whether you function as welders or inspectors, the laws of physics are implacable lie-detectors. You may fool men. You will never fool the metal.” —Lois McMaster Bujold
An alumni talk for the third year undergraduate students of Mechanical Engineering department was held on 25th February 2019. Harsh Khant (14 batch student), is currently with Infosys as a Systems Engineer at Pune. Topic of talk was “How to prepare for campus placement/competitive exams” and Talk was followed by interactive session where students took active part.

Excellence is to do a common thing in an uncommon way. — Booker T. Washington

An “Expert Talk” by Mr. Ashok Patel (P.E., RLS, CFM), USA was organized jointly by the Department of Civil Engineering, Mechanical Engineering and Mechatronics Engineering on 12th of February 2019 (Tuesday). Mr. Ashok Patel delivered lecture on Basics of Hydrology and Flood Occurrence by Flo – 2D Modelling.

Pure Water is the World’s First and Foremost Medicine. – Slovakian Proverb.
4. Alumni talk on "Opportunities after engineering especially in the Defense Forces"

An alumni talk for the third year undergraduate students of Mechanical Engineering department was held on 5th February 2019, in the room no B305 from 1:30 to 2:30 PM. Aman Chawla (02 batch student), is currently with Indian Navy. Topic of talk was “Opportunities after engineering especially in the Defense Forces” and Talk was followed by interactive session where students took active part.

5. Solidworks and its capabilities

An expert lecture on “solidworks and its capabilities” was arranged by Prof. Faijubhai R Malek for the benefit of 3rd year mechanical engineering students on 21/01/2019. Approximately 113 students have taken benefit of it. In this lecture an expert user of software “solidworks” have explained various capabilities of the the software like solid modeling, assembly, drafting, mechanism motion and finite element analysis.
6. “6 σ” Six Sigma Foundation - Yellow Belt Training and Certification Course

To enhance the knowledge of the young budding engineers beyond their regular curriculum and to boost their employability this Six Sigma Yellow Belt Training and Certification Program was organized during IMAZE 19 Tech-Fest. The course was also aimed at preparing strong foundations for the students to take up higher level certifications, such as Green Belt and Black Belt and to implement Six Sigma improvement projects in the industries. Total 48 participants (UG and PG students + few faculty members) took the rigorous training and appeared and cleared the end of the course. The entire course was designed and conducted by Dr. Darshak Desai, Head Mechanical Engineering Department and Certified Lean Six Sigma Black Belt.

"Coming together is a beginning. Keeping together is progress. Working together is Success." - Henry Ford
7. Vibration Measurement & Analysis

Vibration is one of the major problems in the industry. Vibration not only causes noise which reduces the efficacy of the personnel working around but also degenerate the mechanical systems leading to catastrophic failure and increased cost of maintenance. This is an introductory workshop which makes the participant familiar to the basic terminology in vibration measurement and analysis. Various techniques used to diagnose machinery condition are reviewed, including time waveform, spectral analysis, phase measurements, and various amplitude measurement methods.

The program was conducted by Dr. Mukesh Bulsara, Professor, Mechanical Engineering Department, GCET.

“Lower vibrations exist with material reality, higher ones with mystical reality, and a full vibrational spectrum with expanded reality.” - Dr. Valerie Hunt
8. Introduction to 2D and 3D drafting through CREO

This workshop was coordinated by the students of PRARAMBH under the guidance of Dr. Saurin Sheth(Convener, PRARAMBH) and Faculty Coordinator Prof. Akarsh Jain. The student coordinators of the event were Rishit Panchal, Abhishek Tripathi, and Nimit Shah. And to deliver the content student from 3rd-year mechanical engineering department Chirag Kanagiyani has been invited. He along with Rishit Panchal addressed the students during the event. The workshop started at 12:30 pm with great enthusiasm by participants as well as the technical team.

"You can't use up creativity. The more you use, the more you have." -- Maya Angelou
9. National Productivity Week Celebration-2019

Mechanical Engineering Department of G H Patel College of Engineering & Technology celebrated National Productivity Week-2019 in Collaboration with National Productivity Council, Gandhinagar on 15th February, 2019. The theme for the same is “Circular Economy for Productivity & Sustainability”. Poster and Elocution competition were held on 8th and 15th February, 2019. We are thankful to National Productivity Council, Gandhinagar for sponsoring the prizes (3 each) to winners of the two competitions. Mr. Natarajan Pratap, Deputy Director, NPC, Gandhinagar was present during the event and he encouraged all the students through his speech.

Real integrity is doing the right thing, knowing that nobody’s going to know whether you did it or not. – Oprah Winfrey
**Result analysis**

**UG - Summer 2019 Result Analysis**

<table>
<thead>
<tr>
<th>Semester</th>
<th>GTU (Overall)</th>
<th>GTU (Mech)</th>
<th>GCET - Mech</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd Sem</td>
<td>51</td>
<td>47</td>
<td>68</td>
</tr>
<tr>
<td>4th Sem</td>
<td>61</td>
<td>64</td>
<td>90</td>
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<tr>
<td>6th Sem</td>
<td>73</td>
<td>62</td>
<td>93</td>
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<tr>
<td>8th Sem</td>
<td>92</td>
<td>93</td>
<td>97</td>
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**ME (IE) 2017 Batch IV Sem Summer 2019 Graduating Batch**

<table>
<thead>
<tr>
<th>CPI Range</th>
<th>No. of Students</th>
</tr>
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<tbody>
<tr>
<td>cpi≥9</td>
<td>1</td>
</tr>
<tr>
<td>8 ≤cpi&lt;9</td>
<td>7</td>
</tr>
<tr>
<td>7 ≤cpi&lt;8</td>
<td>4</td>
</tr>
<tr>
<td>4 ≤cpi&lt;7</td>
<td>2</td>
</tr>
</tbody>
</table>
STUDENT’S ACHIEVEMENT

BHAKHAR DAKSH HARESHBHAI
180110119006
Institute Topper in Sem. II Summer 2019 with 9.51 CPI

Institute 3rd
PATEL NIHIR
SUBHASHCHANDRA
180110119079
9.38 CPI in Sem II Summer 2019

Institute 4th
DUDHAT URMIK
LALITBHAI
180110119033
9.26 CPI in Sem II Summer 2019

Institute 8th
AMIN MANAV
MAULIK
180110119003
8.97 CPI in Sem II Summer 2019
Congratulations to ME (Industrial Engg.) graduating students for appearing into institute top ten across all PG programmes in university (GTU) final exams 2019

Trushant Desai
Nikunj Patel
Shiv Pandya
Hiren Bakhru
Meet Maheshwari

Placement Details

<table>
<thead>
<tr>
<th>Total number of company visited</th>
<th>Total Number of Students Placed</th>
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</thead>
<tbody>
<tr>
<td>32</td>
<td>74</td>
</tr>
</tbody>
</table>

Larsen & Toubro
Infosys
Godrej
Fanuc
Supergas
TBEA
**Industrial Visits**

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Date</th>
<th>Place</th>
<th>Students</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16&lt;sup&gt;th&lt;/sup&gt; April 2019</td>
<td>Adani Power, Mundra</td>
<td>Final Year</td>
<td>Prof. Vivek Patel&lt;br&gt;Prof. Jvalant Trivedi&lt;br&gt;Prof. Aakarsh Jain&lt;br&gt;Prof. Mihir Solanki</td>
</tr>
<tr>
<td>2</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; April 2019</td>
<td>Adani Port, Mundra</td>
<td>Final Year</td>
<td>Prof. Vivek Patel&lt;br&gt;Prof. Jvalant Trivedi&lt;br&gt;Prof. Aakarsh Jain&lt;br&gt;Prof. Mihir Solanki</td>
</tr>
<tr>
<td>3</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; April 2019</td>
<td>Adani Wilmar, Mundra</td>
<td>Final Year</td>
<td>Prof. Vivek Patel&lt;br&gt;Prof. Jvalant Trivedi&lt;br&gt;Prof. Aakarsh Jain&lt;br&gt;Prof. Mihir Solanki</td>
</tr>
<tr>
<td>4</td>
<td>26&lt;sup&gt;th&lt;/sup&gt; February 2019</td>
<td>Sardar Sarovar Dam</td>
<td>Third Year</td>
<td>Prof. Jvalant Trivedi&lt;br&gt;Prof. Aakarsh Jain&lt;br&gt;Prof. Ravi Rathod</td>
</tr>
<tr>
<td>5</td>
<td>02&lt;sup&gt;nd&lt;/sup&gt; February 2019</td>
<td>Siemens Ltd. Vadodara</td>
<td>Third Year</td>
<td>Prof. N R Patel&lt;br&gt;Prof. F R Malek</td>
</tr>
<tr>
<td>6</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; February 2019</td>
<td>Sardar Patel Renewable Energy Research Institute (SPRERI)</td>
<td>Final Year</td>
<td>Prof. Jvalant Trivedi&lt;br&gt;Prof. Ravi Rathod</td>
</tr>
<tr>
<td>7</td>
<td>18&lt;sup&gt;th&lt;/sup&gt; January 2019</td>
<td>Schaeffler India ltd</td>
<td>PG</td>
<td>Dr. V A Deshpande&lt;br&gt;Dr. M M Gor</td>
</tr>
</tbody>
</table>

**From Alumnae**

I thank the institute and the faculty members for all the efforts put in by them, along with the perseverance and right moves have paid off. All my batch mates are doing well in their respective jobs which reflect the quality of the students the institute has produced. I spend almost my 6 years (Bachelor and Master) as student in this institute and after completion of my post-graduation i am other side of the table and it is my pleasure to work with my teachers and experienced faculties, which will enhance my knowledge and skills.