From the Desk of Department Head

I am happy to make this second issue (2016/17 issue 2) of department e-newsletter online on GCET website.

Department of Mechanical Engineering took initiative to publish department e-newsletter at the end of every semester containing some important information and major achievements during respective semester. This is the issue no. 2 covering proceedings of II sem., that is, even semester of academic year 2016/17.

The basic motive behind this effort of publishing e-newsletter every semester is to showcase achievements of students, faculty and staff members. We also aim to be in active touch with the large pool our alumni members by this. I am sure with our collective efforts we can continuously go on enhancing this endeavor.

*We would be more than happy to have few contributions from your side in terms of technical and/or general articles/updates/informative stuff for the students etc. to be included in next issue.*

**Department Updates**

### Faculty Cadre

<table>
<thead>
<tr>
<th>Professor</th>
<th>Associate Professor</th>
<th>Assistant Professor</th>
<th>Trainee Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>02</td>
<td>17</td>
<td>03</td>
</tr>
</tbody>
</table>

### Faculty Qualification

- ME/ MTech: 57.14%
- Pursuing PhD: 9.5%
- PhD: 33.3%
Faculty Members Joined
as Assistant Professor

Jvalant Trivedi  Mihir Solanki  Purnank Bhatt  Aakarsh Jain

Faculty Members Completed Ph. D.

Dr. Vivek Deshpande
Programs Organized

Seminar on “Imbibing Expertise”
By Dr. Mukesh Bulsara
As an engineer, it is important for us to have information not only about our subjects but also how we can apply it in real life and skills that are necessary for us to improve ourselves and be ready to face the challenges in the industry. Keeping this in mind, an event called “Imbibing Expertise” was organized on 5th May 2017, along with the second year students of the mechanical department under GCET ISTE student chapter. During the morning session, Dr. Mukesh Bulsara gave students a talk on “Employment of engineers” and informed them about the present scenario in the mechanical industry – what are the skills that make an engineer employable, the problems faced by the employers and how can we change the scenario in our favor.

Expert lecture on “Know the Ace in you”
By Ms. Arti Vyas
In today's corporate world, it's really very difficult to fight through the increasing competition and achieving a position among us. It's a challenging task to prove to the world the uniqueness and qualities in you. So to make the students aware about the upcoming trends and the techniques to cope up with the modern corporate world, an expert lecture was organized by the Mechanical dept. under GCET ISTE student chapter on 16th February 2017 As "Know the Ace in you" by Ms. Arti Vyas. The talk was basically on the various basic skills which would be useful in their professional life. The session had begun with the basic introduction to the skills. They are communication skills, self-confidence, presentation skills, critical thinking and the way to properly present yourself during an interview.
“International Conference on Emerging Trends in Mechanical Engineering (ICETME 2017)”

An International Conference on Emerging Trends in Mechanical Engineering (ICETME2017) was organized by Mechanical Engineering Department of G H Patel College of Engg. & Technology (A Charutar Vidya Mandal Institution) during 24-25th February, 2017. Delegates from different parts of the countries presented their research papers. There was a video conferencing presentation from overseas delegate from Denmark. The delegates from various reputed academic institutions, and industry presented their research work. Many students also participated in the conference. Total 99 papers were received and 77 papers were accepted after rigorous review process. Total 60 papers were presented by various delegates in the conference. Eminent personalities like Dr. Xie Min (City University of Hong Kong), Dr. Suhas Joshi (IIT, Bombay) Dr. S A Channiwala (SVNIT, Surat) and Dr. Himanshu Trivedi (Bosch Rexroth, Ahmedabad) delivered expert talks on insightful issues related to academics and industry. Dr. Himanshu Soni (Principal, GCET), congratulated Dr. Darshak Desai (Head), Dr. Hemant Thakkar (Organizing secretary), Dr. Manan Desai (Organizing secretary), and all staff members and students Volunteers for the success of the event. The department has expressed deep sense of gratitude towards Charutar Vidya Mandal for supporting this event.

“Alumni Talk For The Third Year Mechanical Students”

Mechanical engineering department arranged an alumni talk on 31st March 2017, for third year mechanical students. Speakers for the said event were Nikheel Makwana (PG in Product Design, UK) ,Parth Kotadia (General Electric).Topics covered under this session were Foreign education system and Supply chain management.

IMAZE ’17, an extravaganza held during the month of April. It consists of a multitude of technical and non-technical events, scintillating workshops, intriguing seminars, mesmerizing cultural events and games, having alluring rewards to be won. As a package, it serves a perfect experience of combination of fun and presence of mind. The events mainly from mechanical departments were

World War 3:- When the going gets tough, the tough get going. One bot. Three challenging platforms - Land, Water and Air. Smash the feeble. Survive the toughest. Dominate the fierce metal battlefield to rattle the floor, waves and the air. Versatility will lead you to the finish line.
**Hoversking:** Fly low with your craft. Skillfully glide through the arena. The arena is intangible and with little ease of emerging as a marvel. Accept the reorganizing challenges to endure a skillful warrior of yourself.

**Imaze’17 winners (Mechanical Department)**

<table>
<thead>
<tr>
<th>Name &amp; I D No/ Enrollment. No.</th>
<th>Activity / Participation in Events</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patoliya Abhay (150110119089)</td>
<td>Imaze’17 World war 3</td>
<td>1st</td>
</tr>
<tr>
<td>Kanparia Sanket (150110119098), Kesarkar Mandar (150110119047), Patel Rudra (150110119084)</td>
<td>Imaze’17 World war 3</td>
<td>2nd</td>
</tr>
<tr>
<td>Dhoriya Mohit (150110119065), Sharma Utsav (150110119106), Thacker Maulik (1501101191180)</td>
<td>Imaze’17 Hover Skiing</td>
<td>2nd</td>
</tr>
<tr>
<td>Talavdiya Vanraj (150110119114), Vashi Vishvak (150110119127), Patel Raj (150110119083)</td>
<td>Imaze’17 Bot Pool</td>
<td>2nd</td>
</tr>
</tbody>
</table>

**“Alumni talk by former GCET PG Students”**

Mr. Mihir Solanki delivered his talk on the topic “Design of Experiments” using statistical based taguchi method to optimize number of experiments with interactions among variables. Mr. Vivek Patel delivered his talk on “Total Productive maintenance” for maintaining and improving integrity of production and quality systems through the machines, equipment’s, processes and employees that add business values to organization.
**Result Analysis**

**Summer 2017 Result Summary**

- **GTU (Overall)**
- **GTU (Mech)**
- **GCET - Mech**

- **8th Sem**: 94, 95, 100
- **6th Sem**: 71, 65, 89
- **4th Sem**: 52, 42, 80
- **2nd Sem**: 53.25, 71, 96.83

**Graduating Batch VIII Sem. (13 Batch) Summer 2017 Exam**

- CPI>=9: 1
- CPI>=8: 27
- CPI>=7: 28
- CPI>=6: 10
- CPI>=5: 2
- CPI>=4: 0

**ME (IE) 2015 - IV Sem Result**

**Graduating Batch Summer 2017**

- CPI>=9: 7
- CPI>=8: 8
- CPI>=7: 1
- CPI>=6: 1

**TY (VI Sem) (14 Batch) Summer 2017 Exam**

- CPI>=9: 0
- CPI>=8: 34
- CPI>=7: 34
- CPI>=6: 4
- CPI>=5: 4
- CPI>=4: 2
- CPI>=3: 0

**SY (IV Sem) (15 Batch) Summer 2017 Exam**

- CPI>=9: 6
- CPI>=8: 56
- CPI>=7: 45
- CPI>=6: 16
- CPI>=5: 0
- CPI>=4: 1
- CPI>=3: 0
- CPI>=2: 2

**FY (II Sem) (16 Batch) Summer 2017 Exam**

- CPI>=9: 0
- CPI>=8: 56
- CPI>=7: 45
- CPI>=6: 16
- CPI>=5: 0
- CPI>=4: 1
- CPI>=3: 0
- CPI>=2: 2
### Industrial Visits

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Date</th>
<th>Plant</th>
<th>Students</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21st Jan 2017</td>
<td>Siemens Ltd Energy Oil &amp; Gas</td>
<td>Third Level</td>
<td>Prof. Vivek Patel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R. S. No. 144, Opp. Makarpura Railway Station, Maneja, Vadodara - 390013</td>
<td>Class I Total:55</td>
<td>Prof. Jvalant Trivedi</td>
</tr>
<tr>
<td>2</td>
<td>1st Feb 2017</td>
<td>Amul Dairy, Anand</td>
<td>Third Level</td>
<td>Prof. Sukritindra Soni</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Class I Total:61</td>
<td>Prof. Nirav Patel</td>
</tr>
<tr>
<td>3</td>
<td>3rd Feb 2017</td>
<td>Amul Dairy, Anand</td>
<td>Third Level</td>
<td>Prof. Mitesh Vegad</td>
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<td></td>
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<td>Class II Total:35</td>
<td>Prof. Bharat Sunar</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Class II Total:54</td>
<td>Prof. Nirav Patel Mr. Sanjay Parmar</td>
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<tr>
<td>5</td>
<td>15th Feb 2017</td>
<td>Sardar Patel Renewable Energy Research Institute (SPRERI) V V Nagar</td>
<td>Fourth Level</td>
<td>Prof. Ravi Rathod</td>
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<td></td>
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<td>Total:45</td>
<td></td>
</tr>
</tbody>
</table>

### Students Achievements

- **ISMAIL WILSON TAIFA** International Student from Tanzania of M.E. (Industrial Engineering) received **Gold Medal at GTU**
- 10 papers published by UG students at International Conference.  
  20 papers published by PG students at International/National Journals and International Conferences.
- All PG Dissertations on **Real Life Industrial Problems**  
  100% Placement of M.E. (Ind. Engg.) Students
- 13 Students cleared NPTEL exams conducted by various IITs
## Students’ Performance in Competitive Exams (Year 2016/17)

<table>
<thead>
<tr>
<th>Exam</th>
<th>Appeared</th>
<th>Cleared</th>
</tr>
</thead>
<tbody>
<tr>
<td>GATE</td>
<td>24</td>
<td>10</td>
</tr>
<tr>
<td>GRE/TOEFL</td>
<td>04</td>
<td>04</td>
</tr>
<tr>
<td>CAT</td>
<td>09</td>
<td>09</td>
</tr>
<tr>
<td>SNAP, XAT, NMAT, IIFT</td>
<td>08</td>
<td>08</td>
</tr>
</tbody>
</table>

## Students Placement

<table>
<thead>
<tr>
<th>Year</th>
<th>No of companies</th>
<th>No of students selected</th>
<th>Average salary lacs / Annum</th>
<th>Highest salary lacs / Annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-17</td>
<td>14</td>
<td>49</td>
<td>Rs.3.4 Lacs</td>
<td>Rs. 4.87 Lacs</td>
</tr>
</tbody>
</table>

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All PG Graduated Students of 14 and 15 batches are placed
Dr. Mehul Gor has attended a short term course on "3rd SERB Summer School on Robotics" held on 23rd June 2017 to 28th June 2017, at IIT Delhi.

Total 13 Expert Lectures were delivered by prominent faculty members outside the institute.