

## DEPARTMENT OF MECHANICAL ENGINEERING

### Annual Report 2019-20

#### 1. Academic achievements:

- BE student Sahil Shivathare got selected for Infosys in campus placement.
- BE students Sabarish Krishnamurthy and Swarup Dhanawade got selected for Hind Terminals Pvt. Ltd. In campus placement.
- Final year students Atul Agnihotri and Aniket Bhosale qualified GATE 2020 with score of 41.11 and 48.48 respectively.

#### 2. Department Initiatives:

- Department organised various SDPs for SE, TE and BE students.
- Department organised industrial visits for the students of SE, TE and BE.
- Department conducted orientation program for the subject of Engineering Mechanics as per revised Mumbai University syllabus on 19 Sept 2019.
- DAB meeting was conducted on 19 October, 2019.
- Faculty-Alumni interaction.
- Organised Parents-Teachers Meet.
- Department organised FDP.

#### 3. Academic/technical achievements of students:

- SAE student team Turbocrafters conducted two days Automobile workshop for school students on 27-28 July, 2019.
- SAE students team conducted Solidworks workshop for F.E. and S.E.(Mech) students on 30-31 August, 2019.



- Two project groups (Group No. 5: Chettiar Sairam, Iyer Siri, Chaudhari Raj, Chillara Sowmya; Group No. 12: Ghatage Avdhut, Jalalbisht Neeraj, Phapale Aishwarya, Shivathare Sahil) from final year received first prize and runner-up prize respectively in National Level Technical Paper Presentation Competition NLTPP-2019 at BVCOE, Kharghar on 20 September, 2019.
- SAE council students conducted three events (1 - Roadrash, 2 - Automania, 3 - Design wars) on 28-29 September 2019.

- BAHA students conducted two days Automobile Workshop for school students of St. Xaviers, Nerul on 19-20 October, 2019.
- Students from SE and TE have undergone internship in industries after end-sem exams in December 2019 and January 2020.
- BE project group with topic Solar powered atmospheric water generator got selected for level 2 of project competition Avishkar.
- BE project student group presented and demonstrated the innovative project idea in Innovations 2020 organised by CSI in SIES GST and won second prize on 28 February 2020.
- Three student groups presented paper in national level technical paper presentation competition Techxter 9.0 at SIES GST on 29 February 2020.

### 5. Cultural/sports achievements:

- Students of SE, TE and BE participated in various events in TML 2020.
- Third Year student Gaurang Dandwate received second prize in university level quiz competition (NSS) on 'Life and works of Mahatma Gandhi' at Mulund College of Commerce on 25 September, 2019.
- SAE student team Turbocrafters participated in National level event all-terrain vehicle competition BAJA 2020 at Indore during 22-26 January 2020 and secured 1st in Mumbai, AIR 8th in maneuver, AIR 6th in endurance and overall AIR 11th rank at national level.



- SAE student team Turbocrafters participated in National level event all-terrain vehicle competition ATVC 2020 at Vadodara, Gujarat and secured AIR 1 in Suspension & Traction, AIR 1 in Cost, AIR 1 in Mega Marketing Round, AIR 4 in Maneuverability, AIR 3 in Endurance and overall AIR 3rd rank at national level.

#### **6. Faculty achievements/Research grants:**

- Prof. Lokpriya Gaikwad submitted research paper to international conference IMMT2019 to be held in BITS-Pilani Dubai Campus during 20-22 Nov, 2019.
- Dr. Rupendra Nehete and Dr. Kaustubh Chavan submitted technical paper to international journal IJMPERD (scopus indexed) from Trans Stellar Publications.
- Prof. Ganesh Kadam and Prof. Onkar Potadar visited the industry Metalemm Bombay Pvt. Ltd., Thane on 21 September 2019 for getting an overview on current going final year project (Design and Manufacture of India's largest ladder) as well as discussed future prospects for industry-institute interaction.
- Four minor research proposals were submitted for getting research grants by Dr. Pradip Patil (2 nos.), Dr. Kaustubh Chavan (1 nos.) and Prof. Lokpriya Gaikwad (1 nos.) to Mumbai University.
- Prof. Prashant Ambadekar published two books entitled 'Advanced Manufacturing Processes' for MSBTE and Jharkand University.
- Dr. R.S. Nehete got patent certificate (Design no. 286364, Issue date: 01/07/2019, Class: 203) in the month of November 2019.
- Dr. R.S. Nehete published paper in Scopus indexed International Journal IJITEE in October 2019.
- Dr. R.S. Nehete published paper in Scopus indexed International Journal IJSTR in November 2019.
- Dr. Pradip Patil published paper of IEMECON 2019 in IEEE Digital Explore in November 2019.
- Dr. Rupendra Nehete presented poster for minor research grant project in Mumbai University on Dec 16 2019.
- Dr. Rupendra Nehete published two papers in International Journals IJSTR and IJRTE having scopus indexing.
- Prof. Prashant Ambadekar presented poster for minor research grant project in Mumbai University on Dec 16 2019.
- Prof. Prashant Ambadekar presented poster for Avishkar project competition (teacher category) at RAIT Nerul on Dec 21 2019.
- Prof. Prashant Ambadekar published books entitled 'Industrial Engineering and Management' and 'Mechatronics' for MSBTE.
- Prof. Lokpriya Gaikwad's two papers have been accepted in International Journals TQM and IJIMSE.
- Dr. Rupendra Nehete and Dr. Pradip Patil attended syllabus revision meeting for revised syllabus curriculum Rev. 2019 of Mechanical Engineering of Mumbai University at LTCOE, Koparkhairane on 29 February 2020.
- Prof. Prashant Ambadekar published book entitled 'Measurement and Automation' for MSBTE.
- Prof. Lokpriya Gaikwad's two papers have been published in scopus indexed International Journals TQM (Emerald) and IJIMSE (Science Publ.).
- Prof. Prashant Ambadekar's paper has been published in International Journal of Bio-and Tribo-Corrosion (Springer) on 2nd March 2020.
- Prof. Prashant Ambadekar's paper has been published in International Journal SN Applied Sciences (Springer) on 9th April 2020.

## 7. Seminars/workshops/industry visits organised by departments:

- An alumni talk was organized on 'Projects in Heat Transfer in Alfa Laval' by alumni Mr. Pankaj Pathak from Alfa Laval for BE students on 30 August, 2019.



- Department organized and conducted Parents-Teachers Meet wherein faculties interacted with parents and delivered seminars on activities of department and institute on 30 August 2019.



- A SDP was organised on Guidance for UES applicants (armed forces) for all branch students by Retd. Captain R.S. Tope from Indian Navy on 31 August, 2019.
- Orientation program was conducted for the subject of Engineering Mechanics as per revised Mumbai University syllabus on 19 Sept 2019 wherein faculties from 61 engineering colleges participated.



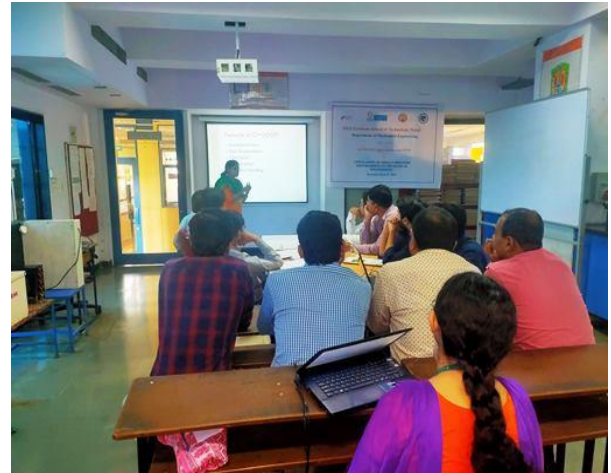
- A SDP was organized on industrial tools and techniques for BE students by industry expert Mrs. Divyanka Ingale from IDOS LLP on 20 Sept 2019.



- A SDP was conducted on GATE awareness for all mechanical engg. students by Vidylankar coaching center on 20 September 2018.
- Industry visit was conducted for second year students at Hindustan Forging & Steel Industries (HFSI), Wagle Estate, Thane for imparting knowledge on machining, heat treatment and forging operations on 21 September 2019.



- A SDP was conducted on entrepreneurship awareness camp for final year students on 27-28 September 2019.
- BE students attended program on Design Innovation Creativity & Entrepreneurship (DICE) Boot Camp at School of Design & Innovation (ISDI), Parel on 5 October, 2019.
- Industry visit was organized for BE students at workshop of Fortune Cars Pvt. Ltd., Nerul on 9 October, 2019.
- Department organized and conducted one-week AICTE-ISTE approved STTP on Application of object oriented programming in mechanical engineering from December 16-21, 2019.



- In-house internship was conducted on topics ‘Design and Manufacturing of Drill Jig & Maintenance of Various Machines in Machine Shop’ and ‘Design and Development of Spiral Tube Heat Exchanger’ for students of SE and TE respectively from December 5-22 2019.





- Industry visit was conducted at Mecho Engg. Pvt. Ltd. for TE students from Dec 26-31 2019 at Bangalore, Karnataka.



- Department conducted Alumni meet 'Annual Alumni Reunion 2020' on 4th Jan 2020 and faculties interacted with alumni.
- Organized convocation ceremony and distributed degree certificates to previous year pass-out students on 11th Jan 2020.
- Conducted FDP Seminar on 'Intellectual Property Rights' by expert Dr. Prashant S. Lokhande, PCE Panvel on 18 Jan 2020.



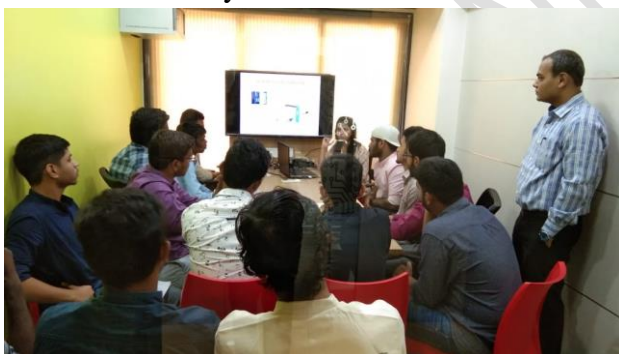
- Faculties interacted with Alumni during alumni meet and convocation on 4th Jan and 11th Jan 2020 respectively.
- Conducted SDP training program on Energy Savings for TE students by industry expert Mr Sambhaji Kadam from PCRA on 24 Feb 2020.



- Students of SE and TE attended an awareness session on career opportunities in Indian Navy at SIES GST auditorium on 28 February 2020.
- Department organized and conducted Parents-Teachers Meet wherein faculties interacted with parents and delivered seminars on activities of department and institute on 29 February 2020.



- Conducted industry visit for TE students at Milestone Institute, Thane on 29 February 2020.



- Facilitated BE students to appear for placement preparation tests FNAT and FNCODE in SIES GST from Firstnaukri on 4 March 2020.
- Conducted field visit for BE students to show solar water heating system at SIES Old Age Home, Nerul on 9 March 2020.
- Facilitated students of TE and BE to attend seminar on Digital Marketing by Performics Convonix in SIES GST auditorium on 13 March 2020.
- Conducted industry visit under ISHRAE for SE, TE and BE students at Mitsubishi Electric India Pvt. Ltd., Andheri on 13 March 2020.
- Facilitated TE students to participate in Campus Recruitment Training-CRT from MyPostGrad in SIES GST on 14 March 2020.

#### **8. Seminars/workshops/FDPs attended by department faculty:**

- Mechanical department all faculties participated in one-week AICTE-ISTE approved STTP on Application of object oriented programming in mechanical engineering from December 16-21, 2019.
- Dr. Kaustubh Chavan, Prof. Prashant Ambadekar, Prof. Lokpriya Gaikwad and Prof. Prajakta Kane participated in one week FDP on Design Thinking, Innovation and IPR conducted by BVCOE, Belpada, Navi Mumbai from December 9-13 2019.
- Mechanical department all faculties participated in FDP Seminar on ‘Intellectual Property Rights’ by expert Dr. Prashant S. Lokhande, PCE Panvel on 18 Jan 2020.
- Faculties participated in online workshop on How to use Google Meet by Prof. Prasad Iyer SIES GST on 6th April 2020.
- Dr. Rupenda Nehete participated in online workshop on ‘Intellectual Property Rights’ by Pandit Deendayal Petroleum University on 11 April, 2020.
- Faculties participated in IIC online session by AICTE MHRD Innovation Cell in April 2020.
- Prof. Prashant Ambadekar, Ajay Hudiwale and Lokpriya Gaikwad along with students participated in online personality development course by SIES GST from 28-30 April 2020.
- Dr. Pradip Patil participated in webinar on Industrial Automation using AutoSim 200 by SMC Corporation on 15 April, 2020.
- Dr. Rupendra Nehete, Prof. Chandan Chaudhari and Prof. Onkar Potadar participated in webinar on leadership talk by Prof. Anil sahasrabudhe on 20th April 2020.
- Dr. Pradip Patil participated in webinar on Industry 4.0 by SMC Corporation on 22 April, 2020.
- Dr. Pradip Patil participated in webinar on Hydraulics and Pneumatics by SMC Corporation on 29 April, 2020.
- Dr. Pradip Patil participated in webinar on Exam Reforms through OBE by AICTE from 29th April to 2nd May 2020.
- Dr. Pradip Patil participated in webinar cum training on TKsolver by Universal technical Systems on 30th April and 1st May 2020.
- Prof. Prashant Ambadekar participated in webinar on Breathing Techniques for Improving Immunity by Mr. Shrikant Kshirsagar HR-SIES on 8th April, 2020.
- Prof. Prashant Ambadekar, Prof. Ajay Hundiware and Prof. Lokpriya Gaikwad participated in webinar on Personality development course – Business Psychology by Theia New Consultancy LLP on 28th April 2020.
- Prof. Prashant Ambadekar participated in webinar on Tire Testing – Why we need it and how do it efficiently? by Link Engineering Company on 29th April, 2020.
- Prof. Prajakta Kane participated in webinar in Improving Research planning at technical institutes by Elsevier and VTU Consortium on 29th April 2020.
- Faculties participated in webinar on topic ‘Understanding on E-Content Development’ by Prof. Mandar Bhanushe (Institute of Distance and Open Learning, Mumbai University) organized by SIES Central Training Department on 29 April 2020.
- Prof. Lokpriya Gaikwad and Dr. Kaustubh Chavan participated in webinar on How to improve the citation and write research papers by SVIT Nashik on 1st May 2020.
- Dr. Rupendra Nehete participated in webinar on Higher Education Abroad by Alumni association SIES GST on 3rd May 2020.
- Prof. M. Ali Ansari participated in NPTEL special lecture series webinar on Career in Police Service and Personal by IPS officer Dr. C. Sylendra Babu DGP Railways Tamilnadu on 3rd May, 2020.

- Prof. M. Ali Ansari participated in NPTEL special lecture series webinar on Career in Sports broadcasting by Mr. Radhakrishnan on 5th May, 2020.
- Prof. M. Ali Ansari participated in webinar on How to start UPSC IAS IPS IFS Preparation by PRAYAS India from 2-7 May, 2020.
- Prof. Lokpriya Gaikwad participated in webinar on Project Management by 3V consultant on 4-6 May 2020.
- Prof. Ajay Hundiware participated in webinar on Upcoming Jobs in India: What should students learn now? By Mr. Soumen Majumdar MaTPO on 5th May 2020.
- Prof. Ganesh Kadam participated in webinar and live tour of 3D Printing leading towards Industry 4.0 by BUHER, Chennai on 3rd May, 2020.
- Prof. Ganesh Kadam and Prof. Ajay Hundiware participated in webinar on Heat transfer and fluid flow for a Heat exchanger unit using Ansys Fluent by FCRIT Vashi on 8th May 2020.
- Prof. Onkar Potadar participated in webinar on research, Funding Projects & IPS by KC College, Thane from 7th May to 10th May 2020.
- Dr. Kaustubh Chavan participated in online session on Leadership talk with Prof. Anil D.Sahasrabudhe, AICTE Chairman by AICTE-MHRD-IIC on 9th April 2020.
- Dr. Kaustubh Chavan participated in online session on Leadership talk with Dr. VK Saraswat, Member NITI Aayog.(How Make in India will become more relevant in post-Covid world) by AICTE-MHRD-IIC on 13th April 2020.
- Dr. Kaustubh Chavan participated in online session on Leadership talk with Dr. Anand Deshpande, Founder, Chairman & Managing Director, Persistent Systems Ltd by AICTE-MHRD-IIC on 14th April 2020.
- Dr. Kaustubh Chavan participated in online session on National Innovation and Startup Policy NISP 2019 for Students and Faculty 2019 by Mr. Dipan Sahu,National Coordinator-IIC, ARIIA, NISP Innovation Cell, Ministry of HRD, Govt. of India by AICTE-MHRD-IIC on 28th April 2020.
- Dr. Kaustubh Chavan participated in online session on Accelerator/Incubation - Opportunity for Student Faculty - Early Stage Entrepreneurs Role and Importance of Pre-Incubators, Incubators and Accelerators in HEIs - Harnessing Innovation and Entrepreneurial Potential of Students and Faculties at Early Stage by AICTE-MHRD-IIC on 29th April 2020.
- Dr. Kaustubh Chavan participated in online session on Role of Network Enablers in driving I&E in HEIs - A Case of TiE, India TiE Network and Chapters in India > Role of TIE as Ecosystem Enablers > Services and Collaboration Opportunities with HEIs to Drive I&E Ecosystem by AICTE-MHRD-IIC on 1st May 2020.
- Dr. Kaustubh Chavan participated in online session on Hangout with Successful Startup Founder and Learn on Design thinking Approach for Hardware Innovation Life of a Startup Founder and Myths and take home Messages \* Learn Design thinking for Hardware Innovationby AICTE-MHRD-IIC on 4th May 2020.
- Dr. Kaustubh Chavan participated in online session on Entrepreneurship, Business Idea and Business Model Canavas Entrepreneurial Motivation -Empathy and Business Idea -Business Model Canvas by AICTE-MHRD-IIC on 5th May 2020.
- Faculties participated in two days FDP on Online Teaching-Learning Practices and Tools by Computer Engg. Dept. SIES GST on 8-9 May, 2020.