

DEPARTMENT OF MECHANICAL ENGINEERING
Annual Report 2018-19

1. Academic achievements:

- Eleven students have secured admission in MS program, one student secured admission for M.Tech. program and some are in progress.
- Around thirteen students appeared and passed examination conducted by NPTEL.
- Atul Agnihotri from TE Mech ranked amongst top 5% nationally in Robotics at July-October 2018 examination conducted by NPTEL.
- Rohan Shettigar from TE Mech ranked amongst top 2% nationally in Product Design and Development at Jan-Feb 2019 examination conducted by NPTEL.
- Final year students Ajith Ramakrishnan, Dhiraj Gulve and Kautuk Thakur qualified GATE 2019 with scores of 43.96, 38 and 34.15 respectively.

2. Collaborative/MOUs':

- MoU was signed with Metallems Bombay Pvt. Ltd., Thane.
- MoU was signed with Samiri Equipments & Engineers Pvt. Ltd., Thane.
- MoU was signed with Manibhadra Machine tools Pvt. Ltd., Thane.

3. Department Initiatives:

- Department organised industrial visits for the students of SE, TE and BE.
- Department faculties gave special attention towards weaker students to improve results of some difficult subjects.
- Department organised various SDPs for SE, TE and BE students.
- Department faculties visited industries as a part of improving Industry-Academia relations to strengthen industry internship, projects, visits and placement.
- Faculties interacted with parents in Parents-Teachers meet and delivered seminars on activities of department and institute on 16 Feb 2019.

4. Academic/technical achievements of students:

- SAE student team conducted workshop for students of all branches on Welding under SAE students chapter on 28-29 July 2018.
- SAE student team conducted workshop for school children on ATV vehicles under SAE students chapter on 1st September 2018.
- Around twenty five students from SE and TE went for industrial internship in the month of December 2018 after the end-sem exams.
- Two project groups from mechanical department participated in avishkar project competition on 23rd December, 2018 at RAIT, Nerul. The title of the projects were 'Development of AI machine for crop yield improvement' and 'Application of VR technique for assembly of distributor valve of railway breaking system'.
- Ken Claude (BE Mech) presented technical paper in Avalon 2019 National Level Project Competition at Terna Engineering College, Nerul on 5 March and 6 March 2019.

- Dharmraj Ayyapan (BE Mech) and Mauli Mirajkar (TE Mech) secured 1st prize in technical paper presentation in Prodology 2019 at VJTI Mumbai on 29 March and 30 March 2019.

5. Cultural/sports achievements:

- Students of SE, TE and BE participated in various events in TML 2019.
- SAE student team Turbocrafters participated in all-terrain vehicle competition BAJA 2019 at IIT Ropar Punjab during 7 March to 10 March and secured 2nd rank in sales and design, 13th rank in dynamic event, and overall 14th rank at national level.



6. Faculty achievements/Research grants:

- Dr. Pradip conducted a session on NAAC preparation for Mechanical Faculties at AC Patil COE, Kharghar, Navi Mumbai on 18 July 2018.
- Dr. R. S. Nehete was invited as a session chair for Technical paper presentation during international conference at Terna COE on 28 Sept.2018
- Dr. R.S. Nehete, Dr. Pradip Patil and Prof. Prashant Ambadekar presented paper at 4th international conference on engineering confluence held at Terna COE Nerul on 26-28 Sept 2018.
- Dr. Pradip was invited as a session chair for Technical paper presentation at HOC Pillai Polytechnic in Sept. 2018.
- Dr. R. S. Nehete was invited as a session chair for Technical paper presentation competition at Agnel Polytechnic on 29 Sept.2018.

- Prof. Lokpriya Gaikwad, Dr. Kautubh Chavan and Prof. M. Ali Ansari presented at international conference held at Shiksha-o-Anusandan University, Bhubneshwar on 27-30 Sept 2018.
- Prof. Sagar Kadu, Prof. Lokpriya Gaikwad and Prof. Ajay Hundiware visited two industries- Reshma Organic Chemical, Turbhe and Sunbel Alloys Co. of India Ltd, Turbhe for having prospects on industry-institute interaction on 6th October, 2018.
- Prof. Prajakta Kane visited Fortune Cars Pvt Ltd., Nerul for discussion on industry visit and internship for students on 6th October, 2018.
- Prof. Prashant Ambadekar, Prof. Ganesh Kadam and Prof. Sagar Kadu visited three industries - Samiri Equipments & Engineers Pvt. Ltd., Hindustan Forging and Steel Industries, Manibhadra Machine tools Pvt. Ltd. and Metalemmms Bombay Pvt. Ltd. all being in Thane for seeking permission towards industry visits, internships and projects for students on 30th October 2018, Further MoU was successful signed with three industries Samiri Equipments & Engineers Pvt. Ltd., Manibhadra Machine tools Pvt. Ltd. and Metalemmms Bombay Pvt. Ltd.
- Dr. Rupendra Nehete published research paper in international journal of benchmarking published by Emerald having scopus indexing in 29th November, 2018.
- Prof. Lokpriya Gaikwad presented paper in national conference NCIETM 2018 at NITIE, Powai during 30 Nov-1 Dec, 2018.
- Prof. Ganesh Kadam and Prof. Swapnil Firake presented paper in international conference Techno-Societal 2018 at SVERI's COE, Pandharpur during 14-15 Dec, 2018.
- Prof. Prashant Ambadekar presented paper in international conference RTIP2R 2018 at Solapur University, Solapur during 21-22 Dec, 2018.
- Prof. Chandan Chaudhari delivered expert lectures in ISTE approved STTP on Application of Computer Aided Engineering Tools in Mechanical Technology from 1 Jan to 5 Jan 2019.
- Prof. Ajay Hundiware was appointed as visiting faculty for the subject Unit Operations and Processes of M.Sc. course at SIES IIEM.
- Prof. Lokpriya Gaikwad published paper in International Journal Institution of Engineers Series-C (Springer) in Feb 2019.
- Dr. Rupendra Nehete was selected as a reviewer for Opsearch – A journal of Springer publication in the month of Feb 2019.
- Dr. Rupendra Nehete chaired as a judge for Avalon 2019 National Level Project Competition at Terna Engineering College, Nerul on 6 March 2019.
- Prof. Lokpriya Gaikwad published paper in International Journal - South Asian Journal of Marketing and Management Research in March 2019.
- Dr. Pradip Patil presented paper in international conference IEMECON 2019 at Jaipur during 13 March to 15 March 2019.
- Prof. Lokpriya Gaikwad published a chapter Supplier Evolution and Selection in Automobile Industry in book titled Industrial Engineering from Intechopen Publication in May 2019.
- Prof. Lokpriya Gaikwad qualified NPTEL April 2019 exam for the 8 week course on Manufacturing Strategy with Elite Certificate grade.
- Prof. Ganesh Kadam qualified NPTEL April 2019 exam for the 8 week course on Introduction to Machining and Machining Fluids and 4 week course on Inspection and Quality Control in Manufacturing, both with Elite+Silver Certificate grade.
- Prof. Vijaya Chame qualified NPTEL April 2019 exam for the 8 week course on Basics of Finite Element Analysis-I with Elite+Silver Certificate grade.

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

- A SDP was organized on Finite element analysis using Ansys for TE students from 18-22 June, 2018.
- A SDP was organized on AutoCAD for SE students from 25-29 June, 2018.
- A SDP was organized on PLC programming for TE students from 25-27 June, 2018.
- An alumni talk was organized on Entrepreneurship by alumni Mr. Akash Agrawal for TE students on 30th July 2018.



- An alumni talk was organized on Future Scope after BE (Career Guidance) by alumni Mr. Amitej Mupliyath for BE students on 31st July 2018.
- A guest lecture was organized on 'Scope of engineer in Solar installation system' by Mr. Vikal Chourasiya for BE Students on 31st July 2018.
- Industry visit was conducted for SE students at Hindustan Forging and Steel Industry Pvt. Ltd., Thane on 6th October, 2018.



- A seminar was organized on 'Energy Scenario and methods of energy conservation' by Mr. Sambhaji Kadam from petroleum conservation research association for SE and BE students on 29th August 2018.



- An expert lecture was organized on 'State space modeling' by Dr. S.N. Teli from BVCOE for TE Students on 4th October 2018.



- Industry visit was conducted for TE students at Suwinka Enterprises, Rabale for imparting knowledge on press tools and sheet metal working on 6th October, 2018.



- Industry visit was conducted for TE students at Kansara Bearing, Jodhpur, Rajasthan for imparting knowledge on manufacturing process of roller bearings during 26th Dec 2018 to 1st Jan 2019.



Department organised and conducted one week ISTE approved STTP on Application of Computer Aided Engineering Tools in Mechanical Technology for faculties and industry persons from Jan 1-5, 2019.





- A seminar was conducted on Skill of writing technical paper and reading journal by Dr. Rupendra Nehete and Dr. Pradip Patil for TE students on 14th January 2020.



- A seminar was organized on 'Energy Scenario and methods of energy conservation' by Mr. Sambhaji Kadam from PCRA for TE students on 16th January 2020.



- A SDP was organised on ANSYS for SE and TE Students by industry expert Mr. Amit Gunjali from Milestone on 30 Jan 2019.
- Industry visit was conducted under ISHRAE for SE, TE and BE students on 14 Feb 2019 at Auro Engineering, Andheri.



- Industry visit was conducted under ISHRAE for SE, TE and BE students on 22 Feb 2019 at Mitsubishi Electric India Pvt Ltd., Andheri.



- A field visit was conducted for BE students to show solar thermal system on 30 Jan and 1 Feb 2019 at SIES old age home, Nerul.
- An alumni talk was organized on Importance of selection of BE project by alumni Mr. Sachin Desai for TE students on 8 Jan 2019.



- An alumni talk was organized on importance of aptitude towards job placement by alumni Mr. Aditya Patil for TE students on 17 Jan 2019.



- A SDP was conducted on Energy Conservation, Management, Energy Audit for BE students by Dr.Santosh Dalavi from PCRA on 5 March, 2019.
- A SDP was conducted on Soft Skills for SE students by Prof. Seema Khan from H&AS Dept. on 18 March, 2019.



- A field visit was conducted field for BE students to show biogas plant on 18 March 2019 at RAIT, Nerul.
- A SDP was conducted on 'Whats Next? Life after B.E.' for BE students by Mr.Ainain Shahidi from SIES SOP on 26 March, 2019.
- Industry visit was conducted for BE students on 2 April 2019 at Warana Dairy, Shirvane MIDC, Nerul.
- Industry visit was conducted for TE students on 3 April 2019 at Warana Dairy, Shirvane MIDC, Nerul.
- In-house poster presentation based on final year projects was organised for BE students on 5 April, 2019.

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

- Mechanical department all faculties participated in ISTE approved one week STTP on 'Application of Computer Aided Engineering Tools in Mechanical Technology' from Jan 1-5, 2019.
- Dr.Rupendra Nehete attended seminar on Oil and Natural Gas – An Awareness Program by Mr. Vasant Mestry under IIIE, Belapur on 19 Feb, 2019.
- Lab assistant Pravin Virkar participated in one day workshop on Moodle Learning Management System conducted by IIT Bombay on 15 March.
- Prof.Lokpriya Gaikwad, Prof. Siddique Ahmed and Prof. Onkar Potadar participated in one day workshop on Moodle Learning Management System conducted by IIT Bombay on 15 March.

- Prof. Onkar Potadar participated in 48th ISTE National Annual Faculty Convention at VTU Belagavi on 19-20 March.
- Prof.Prajakta Kane and Prof.Rutuja Tande participated in one day workshop on Scilab for Teachers conducted by IIT Bombay through ICT in SIES GST on 4 May 2019.
- Prof.Prajakta Kane participated in 2 week STTP on Transforming Higher Education Milieu- Towards Excellence conducted by H&AS Dept. SIES GST from 27 April to 10 May 2019.
- Prof.Prashant Ambadekar participated in CE-QIP five day course on Introduction to Machine Learning and Deep Learning – with Applications to Engineering Systems at IIT Bombay from 13 May to 17 May 2019.
- Prof.M. Ali Ansari participated in 3 days FDP for Student Induction Program for AICTE approved institutions at A.P. Shah Institute of Technology, Thane from 6-8 June 2019.
- Prof.M. Ali Ansari participated in 7 days FDP for Student Induction Program for AICTE approved institutions at A.P. Shah Institute of Technology, Thane from 18-24 June 2019.

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