MECHAZINE

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Department Vision

To become a centre of quality education by developing competent engineers who can address challenges in the field of mechanical engineering.

Department Mission

1. To establish state of the art facilities in department enabling effective training of students and creating research environment

2. Evolve competent technical professionals through effective delivery of curriculum and contents beyond, which fulfil the needs of industry and society.

3. To inculcate sense of social responsibility and human values amongst the students.

Program Specific Outcomes (PSOs)

- Students will be able to investigate problems in the fields of design, thermal and manufacturing processes through application of statistical techniques.
- Students will be able to provide computer based automation solutions to manufacturing and process industries.

Highlights of Department

- Intake BE : 120, ME (Machine Design):18
- Total 543 students on roll
- 27 Highly qualified faculty members from institutes like IIT, NIT, VJTI, etc.
- Post graduate course (ME Mechanical with specialization in Machine Design)
- 16 Spacious and state of the art laboratories
- Departmental library facility
- Advanced licensed software's like ANSYS, CATIA, Autodesk Inventor, Ideas, Solid Works, Cam Works
- Departmental computing facility with 80 computers
- SAE, ISHRAE, ASHRAE, ASME and FSAI student chapters
- ICT class rooms
Programs organized by the Department

One Day Workshop on Additive Manufacturing in Association with COE, Pune
A one day workshop on Additive Manufacturing was organized at Hope Foundation’s Finolex Academy of Management and Technology, Ratnagiri in association with College of Engineering, Pune on 05th January 2019 for Mechanical Engineering students.

Dr. B. B. Ahuja delivering presentation to Students

Planet or Plastic - an Awareness Programme by MESA
Mechanical Engineering Students Association [MESA] organized a social awareness event “Plastic or Planet” on 16th January 2019 on the occasion of Founder’s Day Celebration. The purpose of the event was to spread awareness about the harmful effects of plastic to the environment and to provide economically viable solutions to replace plastic with the paper bags using origami technique.

During inauguration with Principal Dr. Kaushal Prasad, Dr. Milind Yadav (HoD Mechanical), Prof. Tushar Kavatkar (MESA In charge) and MESA Event Co-Ordinator

ISHRAE Held STEM K 12 Activity at Primary School, Mervi
The Department of Mechanical Engineering and ISHRAE FAMT Students Chapter organized a STEM K 12 Activity on the Use of Simple Algebraic Equations based Drawing Competition for standard 1st to 7th, and Science based simple projects and Vedic Mathematics at Zilla Parishad Prathamik Shala Mervi on 1st February 2019.

School children and teachers with FAMT Faculty and ISHRAE Student Members

ISHRAE Held STEM K 12 Activity at Primary School, Hanuman Nagar
The Department of Mechanical Engineering and ISHRAE FAMT Students Chapter organized a STEM K 12 Activity on the Use of Simple Algebraic Equations based Drawing Competition for standard 1 to 4 at Zilla Parishad Prathamik Shala Hanuman nagar on 1st February 2019.

Prof. Hemant V Chavan and ISHRAE student members with the school children & teachers
ISHRAE Held STEM K 12 Activity at Primary School, Kuwarbav

The Department of Mechanical Engineering and ISHRAE FAMT Students Chapter organized a STEM K 12 Activity on the Use of Simple Algebraic Equations based Drawing Competition for standard 1 to 4, and Science based simple projects and Vedic Mathematics at Zilla Parishad Prathamik Shala Utkashr Nagar, Kuwarbav on 2nd February 2019.

MECHNOFIESTA & AUTOZION 2k19

MECHNOFIESTA & AUTOZION 2K19 was organized at Finolex Academy of Management & Technology from 14th to 15th February 2019 by Mechanical Engineering Students Association [MESA]. It was an exhibition of customized bikes, jeeps and cars from Ratnagiri. AUTOZION witnessed over 500 viewers from other schools and colleges. The exhibition included 32 bikes with special modification and some of the rare bikes (Rocket X) and 10 cars. The AUTOZION conventionally has been one of the popular platforms for the students in Ratnagiri to gain worldwide exposure to automobiles.

ISHRAE & ASHRAE Held STEM K 12 Activity at Primary School, Mirjole

The Department of Mechanical Engineering and ISHRAE FAMT Students Chapter organized a STEM K 12 Activity on introduction to various parts and use of computer for standard 1st to 7th, at Zilla Parishad Prathamik Kendra Shala, Mirjole on 16th February 2019. The activity covered simple introduction to computer, its basic components and use of MS Office paint. ISHRAE Student members Omkar Sagvekar and Tejas Kale conducted the activity with full energy and enthusiasm for total 65 school students.
A Seminar on Response Surface Methodology Based Optimization

A Seminar on Response Surface Methodology Based Optimization was conducted on 6th March 2019 for the students of Third year Mechanical Engineering. Dr. V.P. Rathod, Head of Mechanical Engineering Department, Government Polytechnic, Ratnagiri was invited as a resource person for the seminar. The objective of seminar was to introduce the students to the optimization techniques commonly used in many engineering applications.

Dr. M S Yadav (Head of Mechanical Engg. Department) addressing Students during inaugural ceremony

International Women’s day Celebration

The Department of Mechanical Engineering celebrated International Women’s Day on 8th March 2019 under ISHRAE Student Chapter activity. It’s a day to reflect on the progress made, to call for change and to celebrate acts of courage and determination by ordinary women who have played an extraordinary role in the history of their countries and communities. A skit was performed by students depicting the struggle which women face while building their career.

Girl Participants with Prof.Abhillasha Jadav and Prof.Gaytri Abhyankar

A seminar on Internship in Konkan Railway

The Department of Mechanical Engineering of Finolex Academy of Management and Technology, Ratnagiri conducted a Seminar on Internship in Konkan Railway on 4th April 2019 for the students of third year Mechanical Engineering. Mr. Shridhara Avabhrath and Mr. Suryashekhar, Senior Trainer, Konkan Rail Academy, Madgaon, Goa conducted the session.

Mr. Shridhara Avabhrath addressing the students
Industrial Visits

An Industrial Visit to Airpro Engineers, Wada, Thane

In view of bridging the gap between the curriculum and current industry practices in the field of HVAC (Heating, Ventilating and Airconditioning) under the subject of Heat Transfer & Production Process, an Industrial Visit to Airpro Engineers, Wada, Thane was organized by the Department of Mechanical Engineering in association with ISHRAE Thane Chapter for the ISHRAE student members on 5th January 2019.

An Industrial Visit to Blue Star Limited, Wada, Thane

An Industrial Visit to Blue Star Limited, Wada, Thane, was organized by the department of Mechanical Engineering in association with ISHRAE Thane Chapter for Mechanical Engineering ISHRAE student members on 5th January 2019. Blue Star Ltd. manufactures air conditioners, air purifiers & water coolers. It is India's leading air conditioning and commercial refrigeration company, ACs, packaged air conditioners, chillers, cold rooms, refrigeration products and systems.

An Industrial Visit to Aboobaker Ice & Cold Storage

An industrial visit to Aboobaker Ice & Cold Storage, MIDC, Mirjole, Ratnagiri on 9th & 10th March 2019 for the students of third and final year Mechanical Engineering. The visit was organized for the subject “Refrigeration and Air-Conditioning”. The student gained knowledge about Ice Plant working on vapor Compression Refrigeration System.
An Industrial Visit to Ratnagiri Lighthouse & DGPS Station Ratnagiri

An industrial visit to Ratnagiri Lighthouse & DGPS Station Ratnagiri on 12th March 2019 for the students of final year Mechanical Engineering. The visit was organized for the subject “Renewable Energy Sources”. Total 28 students were present for the visit. Prof. V S Bagade and Prof. R. M. Rasal were the coordinators for this industrial visit.

Prof. R. M. Rasal along with students
Students secured 2nd Position in Technical Paper Presentation Competition

Shridhan Panchal (B.E. Mechanical) & Soham Zapadekar (F.E. Mechanical) secured 2nd position in a Technical Paper Presentation Competition. The duo presented on ‘Radiant Cooling’ at Turbo 2K19, a National Techfest held by Gharada Institute of Technology on 16th & 17th March 2019

Team Metadors of FAMT Won All India First Rank in National Technocrat Electric Go-kart Racing Championship 2019

Team Metadors stood first in National Technocrat Electric Go-kart Racing Championship 2019 held at Bhopal (Madhya Pradesh). It was organized by Technocrat Institute of Technology in association with the Society of Automotive Engineering, India.

Prof. Murali Mohan, Dr. Kaushal Prasad (Principal of FAMT), Dr. S.B. Kulkarni with Shridhan Panchal & Soham Zapadekar,

Team Metadors Captain Kushal Choudhary, Vice-Captain Vikrant Patwardhan and other team members Received the certificate, trophy and prize money of 1.5 Lakhs from the organizers at Bhopal (Madhya Pradesh)
Rushikesh Dale & Parth Makadia Won First Prize at ISHRAE NSDC 2019

The team of Rushikesh Dale and Parth Makadia of B.E. Mechanical Engineering won First Prize in National Student Design Competition (NSDC) National Competition held under ACREX 2019 by ISHRAE Students Chapter at Mumbai on 2nd March 2019. The winners received cash prize of Rs. 15,000/-.}

Dr.Kaushal Prasad, Prinicipal, and Dr.M.S.Yadav, HoD Mechanical Engg. with NSDC 2019 Winners Rushikesh Dale & Parth Makadia
Faculty Achievements

NPTEL Online Certification Courses

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Faculty</th>
<th>Course Name</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prof. Potdar Dayanand Gajanan</td>
<td>Product Design and Development</td>
<td>Elite +Gold</td>
</tr>
<tr>
<td>2</td>
<td>Prof. Sagar Namdev Sakharkar</td>
<td>Introduction to Mechanical Micro Machining</td>
<td>Elite</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Shashikant S Goilkar</td>
<td>Roadmap for patent creation</td>
<td>Successfully Completed</td>
</tr>
</tbody>
</table>

Awards
Prof. Hemant Vasant Chavan, Assistant Professor in Mechanical Engineering Department, received Appreciation Award for his exceptional contribution as a Student Branch Advisor by ASHRAE Mumbai Chapter for the year 2018-19 at ASHRAE Mumbai Chapter BOG Installation ceremony Mumbai on 21st June 2019.

Prof. Hemant Vasant Chavan receiving Appreciation Award from Mr. Shankar Sapaliga, ASHRAE Mumbai Chapter President
Research Publication in International Journal


FDP/STTP/Workshop

Prof. R. M. Rasal has completed Short Term Training Program on “Laboratory & Ergonomic Safety for Engineers”, organized by Indian Institute of Technology, Bombay from 10th June 2019 to 14th June 2019

Prof. D. G. Potdar has completed Short Term Training Program on “Laboratory & Ergonomic Safety for Engineers”, organized by Indian Institute of Technology, Bombay from 10th June 2019 to 14th June 2019
Dr. M. S. Yadav has completed ISTE graded and approved One week Short Term Training Program on "Open Source Technology in Teaching and Learning" organized by Department of Information Technology, Finolex Academy of Management and Technology (FAMT), Ratnagiri, from 24th June 2019 to 28th June 2019.

Prof. V. S. Chougule has completed ISTE graded and approved One week Short Term Training Program on "Open Source Technology in Teaching and Learning" organized by Department of Information Technology, Finolex Academy of Management and Technology (FAMT), Ratnagiri, from 24th June 2019 to 28th June 2019.

Prof. A. S. Jadhav has completed ISTE graded and approved One week Short Term Training Program on "Open Source Technology in Teaching and Learning" organized by Department of Information Technology, Finolex Academy of Management and Technology (FAMT), Ratnagiri, from 24th June 2019 to 28th June 2019.

Prof. G. J. Abhyankar has completed ISTE graded and approved One week Short Term Training Program on "Open Source Technology in Teaching and Learning" organized by Department of Information Technology, Finolex Academy of Management and Technology (FAMT), Ratnagiri, from 24th June 2019 to 28th June 2019.

Prof. S. S. Malusare has completed ISTE graded and approved One week Short Term Training Program on "Open Source Technology in Teaching and Learning" organized by Department of Information Technology, Finolex Academy of Management and Technology (FAMT), Ratnagiri, from 24th June 2019 to 28th June 2019.

Prof. A. S. Yekane has completed Short Term Training Program on “Introduction to Human Factor Engineering and Advanced Cognitive Systems Design”, organized by Indian Institute of Technology, Bombay from 6th May 2019 to 10th May 2019

Prof. M. L. Naik has completed ISTE graded and approved One week Short Term Training Program on "Open Source Technology in Teaching and Learning" organized by Department of Information Technology, Finolex Academy of Management and Technology (FAMT), Ratnagiri, from 24th June 2019 to 28th June 2019.

Prof. T. V. Kavatkar has completed Short Term Training Program on “Statistical Analysis and its application in industry and research”, organized by Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology, Khalapur from 6th May 2019 to 10th May 2019

**Expert Lecture**

Prof. T. V. Kavatkar has delivered an expert Lecture on “Industrial Safety” at Rajendra Mane Polytechnic, Ambav, Devrukh, on 18th February 2019

Prof. T. V. Kavatkar has delivered an expert Lecture on “Controller used in Industrial control systems” at Rajendra Mane Polytechnic, Ambav, Devrukh, on 18th February 2019
Appreciation Award to Prof. H. V. Chavan for his exceptional contribution as a Student Branch Advisor by ASHRAE Mumbai Chapter for the year 2018-19

Team Metadors of FAMT Won All India First Rank in National Technocrat Electric Go-kart Racing Championship 2019

Success of Faculty Members in NPTEL
Students secured 2nd Position in Technical Paper Presentation Competition

Department of Mechanical Engineering

Inauguration of GATE Classes

Inauguration of GATE Classes

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