

SARASWATI EDUCATION SOCIETY'S
SARASWATI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

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NEWSLETTER

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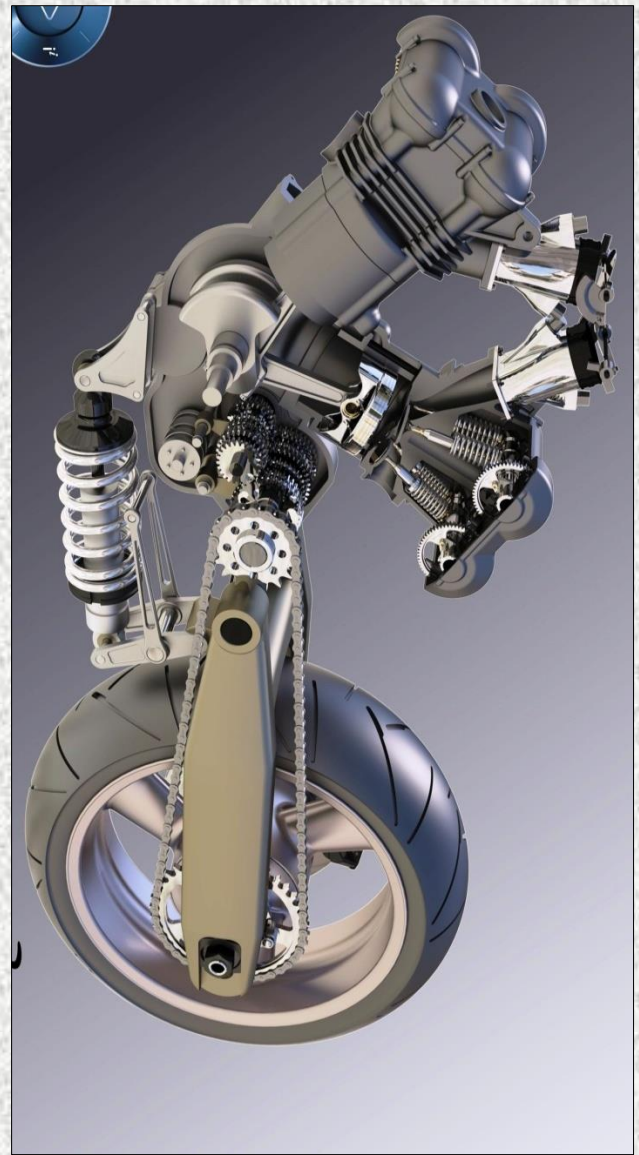
FROM HOD'S DESK

The spirit of improvement is not always a spirit of liberty; for it may aim at forcing improvement on an unwilling people.

Mechanical Engineering is the largest of the engineering disciplines and a large number of mechanical engineers go into manufacturing of computer and electronic products, machinery and transportation equipments.

The department cares for student support, mentoring, tutoring, study skills workshops and career development. Mechanical Engineering students culminate their studies with a year-long capstone project requiring design problem solving, creative thinking, project planning and teamwork. A broad selection of technical electives encourages students to pursue special interests in design and manufacturing, energy and environmental issues, thermal and fluid sciences materials, dynamics & controls and robotics.

Dr.Fauzia Siddiqui



EDITORIAL BOARD

Dr.Fauzia Siddiqui..... (Head of Department)

Prof. A.B. Ranveer..... (Faculty In charge)

VISION

To emerge as a centre of excellence in academics and research in the field of Mechanical Engineering.

MISSION

To create professionally competent engineers with analytical and research skills for promoting an environment of continuous learning.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

1. To create excellent mechanical engineers with core competency in mathematics, science and engineering enabling development of problem solving skills.
2. To strengthen themselves professionally and personally to accept responsibilities and pursue higher education in engineering and other professional fields.
3. To use modern tools and techniques necessary for mechanical engineering and allied disciplines leading to research and development.
4. To inculcate the students to work effectively in cross-functional teams and cultivate the principles of professional ethics and social responsibilities.
5. To develop the students adaptable to change in environment and application of appropriate methodology for value addition so as to support economic growth.

PROGRAM OBJECTIVES (PO'S)

1. Ability to apply knowledge of Mathematics, Science and fundamental of Mechanical Engineering.
2. Ability to design and conduct experiments, as well as to analyze and interpret the data.
3. An ability to use techniques, skills and modern engineering tools necessary for engineering practice.
4. An ability to identify, formulate and solve engineering problems.
5. Committed to professional, social and ethical responsibility to function effectively as a team leader in engineering practices.
6. Inculcating self-discipline and self confidence, and to make the students internally driven to set personal goals.
7. Ability to engage in life –long learning in order to maintain sustainable development even during the crisis.
8. An awareness of contemporary issues and broad understanding of the impact of engineering and technology on society.
9. Ability to understand environmental and contemporary issues.
10. Possess the skills to communicate effectively with a wide range of both engineering and non engineering community.
11. Ability to work as a team and as an individual effectively and apply knowledge of management principles to handle projects in multidisciplinary environment.

PROGRAMS ORGANIZED



Stress Management Program was organized on 17/07/2015 for faculties



An Expert lecture was organized for students on the day of ISHRAE installation chapter on 12/08/2015



A seminar on an approach towards final year Project and Career Counselling was held by Mr. Atul Patil on 04/08/2015



An event of plantation has done by students of department on 15/08/2015



ISHRAE Installation chapter was organized on 12/08/2015



A Training Session was held in Mitsubishi Electricals for ISHRAE students by Mr. Sanjay Verma and Mr. Bhavesh Mehta on 22/08/2015



CAD TECH competition was organized on Engineer's Day 15/09/2015



An industrial visit was organized to Mitsubishi Electricals for ISHRAE students on 30/08/2015



A Seminar on Indo-German Tool room was organized for students on 22/09/15



Blood Donation Camp was organized by Department on Engineer's Day 15/09/2015



Parent Teachers Meet was held on 27/09/2015 to discuss the issues of students



One day Industrial visit was organized for final year students on 29/09/2015



Industrial visit was organized for PG students to Global Industrial Expo in Pune on 18/10/2015



Aptitude-Soft Skills Training was held for students on 05/10/2015



A one day picnic was organized for faculties of department in Shangrila Resort on 04/12/2015

STUDENTS ACHIEVEMENTS

1. Varun Divekar Bagged 1st place in business Tycon 2015 at Orion Techtonics organized by ISB & M School of Technology, in Pune.
2. Varun Divekar Awarded the Best Member Exchange Support in AISEC in Navi Mumbai in 2015.
3. Varun Divekar Won 1st prize in 3D CAD modeling intercollegiate competition held during Algeria-The festival of Joy 2015 at PIT, Panvel.
4. Krishna Kumbhar won 1st Prize in 3D Modeling Competition Nakshatra 2015.

FACULTY DEVELOPMENT

1. Prof. Pankaj Jadhav attended a 3 days training on Pre- EDP conducted by MSME, India from 20th November 2015 to 22nd November 2015.
2. Prof. Pankaj Jadhav & Prof. Nitin Pansakar attended a 2 week (from 11th November to 29th November online phase & from 30th November 2015 to 5th December 2015 face to face interaction at remote centre) STTP on Technical Communication conducted by IIT Bombay through MHRD, Govt of India at SIES, Nerul.
3. Prof. Prasanna Raut, Prof. Paramjit Thakur & Prof. Vinayak Suryawanshi attended STTP on Energy Conservation & handling application to industry from 28th Dec 2015 to 1st Jan 2016 in AIKTC, New Panvel.
4. Prof Suhas Jadhav attended a one day seminar on EDP conducted by SME Entrepreneurship Development Program on 1st December 2015

RESULT ANALYSIS (MAY 2015)

SECOND YEAR (FIRST SHIFT)

Total Result = 44%

Topper list

1. Chalke Rahul (9.54)
2. Bhutkar Akshay(9.36)
3. Anand Pratap Singh(8.59)

FINAL YEAR (FIRST SHIFT)

Total Result = 87%

Toppers List

1. Jain Sanjaykumar (8.82)
2. Jaiswal Rohit (8.21)
3. Kanase Swapnil (7.93)

THIRD YEAR (FIRST SHIFT)

Total Result = 58%

Toppers List

1. Jain Sanjaykumar (8.82)
2. Jaiswal Rohit (8.21)
3. Kanase Swapnil (7.93)

SECOND YEAR (SECOND SHIFT)

Total Result = 42%

Topper list

1. Shirke Atul (8.61)
2. Naik Aditya (7.89)
3. Sawant Swapnil(7.86)

THIRD YEAR (SECOND SHIFT) Total Result= 66%

Toppers list

1. Suyog Patil (9.43)
2. Swapnil Tandel (8.21)
3. Ghorpade Suraj (7.96)

PAPERS PUBLISHED

There are 27 papers published in the national & international journals & conferences by faculty members.

1. Prof.S.N.Teli published a paper on Productivity Improvement by Value Stream Mapping in Die Casting Industry in Journal of Emerging Technologies and Innovative Research (JETIR) in July 2015, Vol 2, Issue 6.
2. Prof.Abhijeet Ranveer published a paper on Design & Analysis of attachment of sugarcane harvester for a tractor in International Journal of Engineering Sciences & Research & Technology in August, 2015.
3. Prof.Pradip Gunaki published a paper on Review Paper ON Energy Efficiency Technology for Heating, Ventilation and Air Condition (HVAC) in Journal of Emerging Technologies and Innovative Research (JETIR) in Sept 2015.
4. Prof. Bronin Cyriac published a paper on Effect of operating parameters on the performance of a fin and tube gas cooler for transcritical operation of CO₂ heat pump in International conference on science, Technology & management in Sep 2015.
5. Prof.S.N.Teli published a paper on Weight reduction of flywheel Applying Value Engineering: A case Study International in Journal of Engineering Science and Management Research (IJESM), Vol2. Issue 10) in Oct. 2015.
6. Prof.S.N.Teli published a paper on Warranty Analysis: A Non Parametric Approach in RJBS, Singapore Vol. 4, Issue 12 in Oct.2015.
7. Prof.Madan Jagtap published a paper on Warranty Analysis: A non parametric approach in RJEBS in Oct 2015.
8. Dr.Fauzia Siddiqui published a paper on Object oriented modelling of low cost automation system in 15th Global conference at SIT, Pune in Oct 2015.
9. Dr.Fauzia Siddiqui published a paper on Micro variable identification for SCM practices in context of flexible system in Indian gas industry in International conference on Advances in science Technology ICAST in Dec 2015.
10. Dr.Fauzia Siddiqui published a paper on 5S workplace quality management system in International conference on Advances in science Technology ICAST in Dec 2015.
11. Dr.Fauzia Siddiqui published a paper on step towards sustainable manufacturing by improving resource efficiency a review in International conference on Advances in science Technology ICAST in Dec 2015.
12. Dr.Fauzia Siddiqui published a paper on A review paper on ANN: A prediction technique technique in International conference on Advances in science Technology ICAST in Dec 2015.
13. Prof.Dinesh Pargunde published a paper on Problem solving methodology by quality control story in International conference on Advances in science Technology ICAST in Dec 2015.
14. Prof.N.J. Panaskar & Prof.Pankaj Jadhav published a paper on A Review on Primary Suspension of ICF Bogie International Conference on Advances in Science and Technology ICAST in Dec 2015.
15. Prof.Mitali Mhatre & Prof.Mugdha Dongre published a paper on A review paper on artificial neural network: a prediction technique ICAST in Dec 2015.

16. Prof.Geeta J.Karmarkar published a paper on OEE implementation International conference on Advances in science Technology ICAST in Dec 2015.
17. Prof.Suhas M. Jadhav published a paper on Review of literature on Heat Transfer Enhancement in Heat Exchangers International conference on Advances in science Technology ICAST in Dec 2015.
18. Prof.Sandeep Jadhav published a paper on Six Sigma DMAIC Literature Review International conference on Advances in science Technology ICAST in Dec 2015.
19. Prof.Paramjit Thakur published a paper on A Study on Nucleate Boiling of Nanofluid International conference on Advances in science Technology ICAST in Dec 2015.
20. Prof.Paramjit Thakur published a paper on Applications of Microporous Heat Sink in Electronic in International conference on Advances in science Technology ICAST in Dec 2015.
21. Prof.Paramjit Thakur published a paper on A Review on Design and Material selection for improvement in performance of Flywheel in International conference on Advances in science Technology ICAST in Dec 2015.
22. Prof. Prasanna Raut published a paper on Rotor Waste Energy Recovery Device from I. C. Engine Exhaust in International conference on Advances in science Technology ICAST in Dec 2015.
23. Prof.Prasanna Raut published a paper on Overview of different techniques utilized in designing of a legged robot in International conference on Advances in science Technology ICAST in Dec 2015.
24. Prof.Prasanna Raut published a paper on Micro variables identification For SUPPLY Chain Management practices in context of Flexible system in Indian Gas in International conference on Advances in science Technology ICAST in Dec 2015.
25. Prof.Dhiraj Patil published a paper on Implementation of Total Productive Maintenance (TPM) in International conference on Advances in science Technology ICAST in Dec 2015.
26. Prof.Dhiraj Patil published a paper on Passive cooling techniques in houses of tropical region: A review in International conference on Advances in science Technology ICAST in Dec 2015.
27. Prof.Vinayak Suryawanshi published a paper on Improvement in OEEE of wire cut CNC machine to the implementation of TPM in International conference on Advances in science Technology ICAST in Dec 2015.

BOOKS PUBLISHED

1. Prof.Madan Jagtap has a published a book on Analysis and Reduction of warranty cost: A Case of Automobile Industry in LAP Lambert, Germany in August 2015, ISBN-13: 978-3-659-77264-1.
2. Prof. Pradip Gunaki has a published a book on Productivity Improvement by Value Stream Mapping in LAP Lambert, Germany in Sept 2015, ISBN-13: ISBN 978-3-659-78386-9
3. Prof. S.N. Teli has a published a book on Knowledge Management: A Case Study in LAP Lambert, Germany in October 2015, ISBN-13: 978-3-659-79362-2
4. Prof. S.N. Teli has a published a book on Dealer Quality Management in November 2015, ISBN-13:978-3-659-80496-0.
5. Prof. S.N. Teli has a published a book on Critical Heat Flux Enhancement using Nano Fluids in December 2015, ISBN-13:978-3-659-80727-5.

M.E. PASSED OUT STUDENTS

- | | |
|--------------------|--------------------|
| 1. Madan Jagtap | 5. Sojjan V.V. |
| 2. Pradip Gunaki | 6. Santosh Devtale |
| 3. Sandeep Jadhav | 7. Siddhesh Lad |
| 4. Sagar Khatavkar | 8. Mandar Jagtap |

RESEARCH PROPOSALS

Minor Research proposals submitted to University of Mumbai are as follows:

1. Stress Distribution in Universal Joint under Variable Torque Condition by Photoelastic Method and UTM by Prof.Sachin Solanke.
2. Design and Development of a Single Wheeled Battery Operated Vehicle by Prof.Nitin J. Panaskar.
3. A weighted Taguchi-Grey-Fuzzy approach for Multi objective optimization of cutting parameters in CNC Milling of INCONEL 718 super alloy by Prof. Paramjit Thakur.

PLACEMENT

- | | |
|-------------------|---------------------|
| 1. Akshay Bhosale | 8. Nitin Mane |
| 2. Shriraj Dubey | 9. Vivek Tiwari |
| 3. Sachin Kokane | 10.Nirgun Karan |
| 4. Ashish Barge | 11.Pradeep Pujari |
| 5. Vaibhav Singh | 12.Varun Divekar |
| 6. Bhushan Bhoir | 13.Akshay Pokharkar |
| 7. Kalpesh Marde | 14.Omkar Wadake |

UP GRADATION OF FACULTY QUALIFICATION

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| 1. Madan Jagtap (M.E. Manufacturing Engg.) | 5. Bronin Cyriac (M.E. Thermal Engg.) |
| 2. Pradip Gunaki (M.E. Manufacturing Engg.) | 6. Abhijeet Ranveer (M.E. Machine Design) |
| 3. Sandeep Jadhav (M.E. Manufacturing Engg.) | 7. Vinayak Suryawanshi (M.E. Machine Design) |
| 4. Amol Bhagat (M.E. CAD/CAM Engg.) | 8. Vaibhav Madane (M.E. Thermal Engg.) |

NEW JOINING

1. Pankaj Jadhav
2. Suhas Jadhav
3. Sachin Solanke
4. Rakesh Shinde

5. Geeta Karmarkar
6. Dinesh Pargunde
7. Bronin Cyriac
8. Nilesh Sawant

MEMORANDUM OF UNDERSTANDING (MOU)



1. Anjuman I Islam's Klasekar Technical Campus School Of Engineering, New Panvel
2. Lokmanya Tilak College of Engineering, Koparkhairane, Navi Mumbai
3. Sanjay Ghodawat Group of Institutes, Atigre, Kolhapur
4. Meta Tech Garage, Chennai

DEPARTMENT OF MECHANICAL ENGINEERING