DEPARTMENT OF MECHANICAL ENGINEERING

[Accredited by NBA 2018-2021]
Modern Education Society is established in 1932 with the motto “For the Spread of Light”. M.E.S. College of Engineering established in 1999 and situated in the heart of Pune city, offers engineering UG & PG courses in Mechanical, E&TC & Computer Engineering and is affiliated to Savitribai Phule Pune University. The college is developing fast with the vision “To Develop Motivated, Environment friendly, Self esteemed, Creative and Oriented Engineers” and the mission “To develop industry oriented manpower to accept the challenges of globalization by promoting value Education through motivated trained faculty by maintaining conducive environment within affordable cost by promoting industry institute interaction by involving Alumni”. The College is accredited by NAAC with Grade ‘A’ (2015-2020)
The Department of Mechanical Engineering is striving hard since its inception in 1999 with highly qualified and energetic faculty for the all round development of the budding engineers for the tomorrow’s nation building. The department is well equipped with state of the art facility in CAD/CAM and Automation Laboratory, Refrigeration and Air Conditioning, Fluid Mechanics and Fluid Machineries etc. The leadership and team building qualities, environmental consciousness of our students are nurtured through membership and participation in various events organized by ASME, SAE India, Renewable Energy Club and MESA. Many staff members have acquired PhD in various streams of Mechanical Engineering. Department is accredited by N.B.A. for three years (2018-2021)
VISION & MISSION OF DEPARTMENT:

Vision:
To groom Motivated, Environmental friendly, Self-esteemed, Creative and Oriented Mechanical Engineers.

Mission:
To Develop Industry Oriented Manpower to accept the challenges of Globalization by,
Imparting mechanical engineering knowledge through trained faculty in conducive environment,
Creating awareness about the needs of mechanical industries through alumni and industry-institute interactions
Encouraging them to think innovatively and introduce them to various research activities
Supporting them to groom in all aspects like communication, interpersonal skills.
ACHIEVEMENTS BY FACULTY

Dr. A. C. Mitra – Gold Medal, IoE

Mrs. V. J. Sonawane

Dr. S. H. Gawande
Professor in Mech. Engg., MESCOE, Univ. of Pune.
Tribology
Design and Vibration Analysis of I.C. Engine
Design Engineering, Edit. in Chief-Journal …

3/2018

Dr. Anirban C Mitra
Associate prof. in Mechanical Engg.
Vibration
Data Acquisition System
LabVIEW
DoE

4/2018
ACHIEVEMENTS BY STUDENTS

• Bharadwaj G.: GATE Score-730, ALL India Rank-1666
• Ravindra Gawade: GATE Score-649, ALL India Rank-3823
• Chavan Hrusikesh Kishore: GATE Score-577, ALL India Rank-6931
• Amarnath Warty: GATE Score-505, ALL India Rank-11157
• Arvind Kumar Prajapati: GATE Score-421, ALL India Rank-18420
• Yadav Kalpesh D.: GATE Score-390, ALL India Rank-21989
• Khaire Mandar Suryakant: GATE Score-379, ALL India Rank-23505
• Kiranchand G. R.: GATE Score-376, ALL India Rank-23837
• Jagtap Sushant Ramdas: GATE Score-299, ALL India Rank-37191
• Kunal Nawander: CAT Score-88.98 Percentile
Achievements-Students/Alumni:

Mr. Sagar D. Malpote
BE (Mech) 2014-15
SPPU 10th Rank
TE Mech 2013-14

Mr. Shreyas Joshi
BE (Mech) 2013-14
SPPU 3rd Rank
IIT, Kharagpur

Mr. Prashant Holkar
DCP, Mumbai
Government of Maharashtra

Mr. Shreyas Joshi
BE (Mech) 2013-14
SPPU 3rd Rank
IIT, Kharagpur

Abhilasha Rajput
2011 Batch
International Postgraduate Trainee at ZF Friedrichshafen

Rohit Ugale
2014 Batch

Sourabh Shastri
2012 Batch

Mr. Taizoon Baker,
Executive Director,
BAKER GAUGES India Pvt Ltd

Mr. Prashant Holkar,
DCP, Mumbai
Government of Maharashtra

Dr. Mandar Harshe
MS, University of Florida, USA

Mr. Kishan Mahalingam,
University Gold Medalist
M. Tech (CAD/CAM), VIT University

Mr. Niranjan Kolhe

Mr. Shreyas Joshi
BE (Mech) 2013-14
SPPU 3rd Rank
IIT, Kharagpur

Mr. Prakash D. Malpote
BE (Mech) 2014-15
SPPU 10th Rank
TE Mech 2013-14

Mr. Niranjan Kolhe

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SPPU 10th Rank
TE Mech 2013-14

Shaharukh Maniyar

Mr. Amol Pawar
AIR-633 (UPSC), Joining
**Innovation by Faculty in Teaching & Learning**

## FUNDED RESEARCH

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Faculty</th>
<th>Duration</th>
<th>Funding Agency</th>
<th>Amount</th>
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<tr>
<td>Investigation on Slurry Erosion Wear Characteristics of AISI SS304L Material</td>
<td>B. D. Nandre</td>
<td>2014-15</td>
<td>BCUD</td>
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<td>DPR preparation for development of Green Campus under Development of Solar Cities programme</td>
<td>Dr. V. N. Raibhole</td>
<td>2015-16</td>
<td>MNRE, GoI</td>
<td>5,00,000/-</td>
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<td>The experimental analysis for heat transfer</td>
<td>V. J. Sonawane</td>
<td>2016-18</td>
<td>BCUD</td>
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<td>Experimental and simulation based investigation of semi active vibration control using MR damper</td>
<td>R. N. Yerrawar</td>
<td>2016-18</td>
<td>BCUD</td>
<td>2,70,000/-</td>
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<td>Comparative performance of an automotive spark ignition vehicle with enriched biogas and gasoline fuel engine</td>
<td>H. S. Salave</td>
<td>2016-17</td>
<td>BCUD</td>
<td>3,45,000/-</td>
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## DEVELOPMENT ACTIVITIES

- **Dr. A. Mitra** has developed a **“Damper with variable orifice for automobile suspension”** - Patent published - 3481/MUM/2014) on 07/08/2015 in IPR, Mumbai.
Dr. V. N. Chougule – BioCAD modeling, developed bio-medical software **Osto3D** for 3D printing of human organs from CT scan data, Currently working on design & development of implant design, etc.

03 Patents filed on MISS applications, Osto3D - deployed in BKL Walawalkar Hospital, Dervan
Continuous Improvement:

• To improve attainments of Programme Outcomes (PO’s) and Programme Specific Outcomes (PSO’s), more emphasis is given on following activities:
  • National Conference RDME
  • Guest Lectures
  • Industrial Visits
  • Technical events viz. BAJA, RoboClub, Project competitions, etc.
  • Social activities viz. Astitva, NSS, debates, quiz, etc.
Modern Education Society’s
College of Engineering, Pune

TEAM GYRFALCONS
SURVIVE TO SUCCEED
What is BAJA?

- BAJA SAE is an inter-collegiate design competition for undergraduate engineering students.
- It helps simulate industrial environment for the students.
- Team Gyrfalcons works to design, fabricate & test an ATV; pushing it beyond the limits.
Students will learn to...

To bridge the industry-institute gap.

To develop interdisciplinary aspects.

To use modern tools for designing of vehicles.

To communicate effectively and commit to professional ethics.

To apply project management and financial aspects for vehicle manufacturing.

To solve complex engineering problems by applying knowledge gained through engineering subjects.
EVENT SITE
PLACEMENT OPPORTUNITIES provided by SAE BAJA
Our SPONSORS till now..

- Schaltbau
- IMFS
- MathWorks
- Faurecia
- S. Globe Engineering
- Altair HyperWorks
- Emotto
- INSPIre Tooling Pvt. Ltd.
- MotoFusion
- MyPitCrew
- Redefining Racing Solution
ACHIEVEMENT

BAJA 2016 – Winner in Sales Presentation

BAJA 2017 – Runner-up in Virtual Presentation

BAJA 2018 –
  • AIR 8
  • Featured in Autocar India
  • Runner-up in Sales Presentation

BAJA 2019 –
  • AIR 9 E-BAJA Overall
  • Lightest E-BAJA vehicle in India
  • Featured in Autocar India
  • AIR 4 Suspension and Traction

BAJA 2020 –
  • AIR 1 E-BAJA Design Presentation
  • AIR 1 E-BAJA Sales Presentation
  • AIR 2 E-BAJA Virtual Presentation

BAJA 2021 –
  • AIR 3 E-BAJA Virtual Presentation
We Hope To See You With Us...