

## Editorial

*As the editor of Mechanical Department Annual Newsletter, I would like to start by conveying my regard to all the team members of editorial board and faculties who supported me for making this happen. This edition is reflection of Departmental activities– the achievements, the spirit of all the students and teachers.*

*Lastly, I would like to thanks Prof. Pravin L. Sarode (HOD, Mechanical) for the continuous motivation , input and time to time support.*

*– Prof. Sunil V. Yeole  
( Editor)*

## STUDENT ACHIEVEMENTS

### BAJA

The students of mechanical engineering department had been participated in M BAJA & E BAJA competition held at Pithampur, Indore sponsored by Mahindra & Mahindra.

The students of mechanical engineering department had been also participated in Mega ATV competition held at Ahmednagar.






**Snapshots of M BAJA & E BAJA**



### VISION

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

### MISSION

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.

Department of Mechanical Engineering					Prof. P.L.Sarode H.O.D	
SN	Event	Name of the Team	No of Students Participation	Staff Coordinator	Achievements (2019-20)	
1	E-Kart	TEAM CHETAK	40	Prof. R. D. Sandhashiv	1. Endurance runner up 2. Best Driver 3. Overall Second Runner up with cash prize of 15000/- @ Coimbatore	
2	M-Kart	TEAM KART-KAIZEN	25	Prof. H. K. Wagh	1. Best Brake System 2. Best Design 3. Best Driver 4. Best Captain with @ Ujjain	
3	E-Bike	TEAM PEGASUS	25	Prof. P. S. Patil	1. Overall Second Runner up 2. Less weight award 3. Technical Inspection award with cash prize of 18000/- @ Tekkali, Andra Pradesh	

Department of Mechanical Engineering					Prof. P.L.Sarode H.O.D	
SN	Event	Name of the Team	No of Students Participation	Staff Coordinator	Achievements (2019-20)	
1	Aero Modeling	TEAM AEROFALCON	7	Prof. N M Shinde Prof. K D Deore	1. Overall Winner at International Level with cash prize of 60000/- @ Delhi	
<b>Total Number of Students Participated</b>			<b>97</b>	<b>Total Trophies</b>	<b>10</b>	

### Achievements in different competitions

#### VISION

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

#### MISSION

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.

In the current academic year, students of the department have achieved laurels in various curricular as well as co-curricular & extracurricular activities within the institute as well as in the events arranged within the university and in other universities of the Nation. The details are summarized in following table:

Name of Event	Team	Students participated
M BAJA	Team Assassins	25
E BAJA	Team Invictus	25
Mega ATV	Team Assassins	30
M Go kart	Kart-Kaizan	25
E Go Kart	Team Chetak	40
Aeromodelling	Team Aerofalcons	07
E Bike	Team Pegasus	25



**Snaps of M-Kart team**

**Co-Curricular Activities**

**Activity wise students participated-**

- Paper Presentation- 3
- Project Exhibition- 5
- Poster Presentation- 8
- Power Point Presentation- 3
- Online Courses (Edx, Coursera, Language etc.)- 407
- Offline Courses (Catia, Pro-E, Autocad, C++ etc. in Physical Mode)- 19
- Technical Workshop- 57
- Quiz/Test/Contest/Webinar- 620
- Technical Events ( Mad for Cad, Roborace, Robowar etc.)-32
- Industrial Training /Internship- 67
- Professional Membership(ISTE,SAE BAJA etc)- 82

**VISION**

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

**MISSION**

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.

## Extrac-Curricular Activities

### Activity wise students participated-

- Blood Donation- 38
- Social Activity(Swachhata Abhiyan,Help to Deaf & Dumb Students etc)- 68
- Tree Plantation- 8
- Sports (District/University Level)- 7

## FACULTY ACHIEVEMENTS

Sr. No.	Activity	Number of faculties participated
1	Journal Paper Published-06	10
2	FDP/Moocs/Workshop Attended- 85	29
3	Conference Attended- 05	05
4	University Avishkar Event- 03	3

## Participation in Avishkar (KBC,NMU)

Sr. No.	Name of the staff	University Event	Poster /Project Title	Achievement / Award if any
1	Prof. N G Shinde	Avishkar 2019	A Brief Review on Materials used for Automobile Dashboard Making	Shortlisted for State Level
2	Prof. R D Sandhanshiv	Avishkar 2019	Review on Carbon Fibre Reinforced Composite Material for using in Automobile Application	Shortlisted for State Level
3	Prof. B Y Patil	Avishkar 2019	Overload Prevention System	Shortlisted for State Level

## Journal Publications

- **Prof. V M Patil, Dr H K Wagh, Prof. S P Badgujar-**
  1. Cfd Modeling And Study Of Combustion In Di Diesel Engine For Different Grid Generation.
- **Prof. S P Badgujar Dr H K Wagh, Prof. P D Jamadar, Prof. V M Patil-**
  2. Computational Analysis of Group Nozzle for single outlet for constant Discharge.
- **Prof. R. D. Sandhanshiv, Prof. N. G. Shinde, Dr. H. K. Wagh and Prof. S. P. Badgujar-**
  3. Design and development of deployment mechanism for 1 meter resolution space telescope.

### VISION

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

### MISSION

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.

- **Prof. R. D. Sandhanshiv, Prof N. G. Shinde, Dr H. K. Wagh and Prof S. P. Badgujar-**  
4. Dynamics of Deployment Mechanism for 1 Meter Resolution Space Telescope.
- **Prof. Y R Pathak, Prof. K D Deore, Prof. R R Ozarkar-**  
5. Effect of Impeller Parameters on the flow Inside the centrifugal blower using CFD.
- **Prof. K D Chaudhari, Dr. H K Wagh-**  
6. Biodiesel as alternative fuel for CI Engine: A review.

## MESA ACTIVITIES

MESA continues to expand its horizon of activities for successive year. MESA conducted workshops in Junior colleges and schools in nearby areas.

## Tree Plantation

For betterment of environment, MESA organized the tree plantation event on 17 August, 2019. The students and the faculty members were participated with full enthusiasm in the event



### VISION

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

### MISSION

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.

## Help for Flood Victims

Relief material for Kolhapur and Sangali district residents which are badly affected with heavy floods were collected from the students of Mechanical Engineering. Nearly Rs 20000 cash and clothes, food, blankets and other essentials goods were collected and given to affected people. Students of Mechanical Engineering department always show their gratitude and solidarity towards people who were in disgrace and in need of help.



## Cloth Donation to Tribal Area People

The event was organized under MESA to donate the cloths to the needy people in Tribal area of Shirpur Taluka. The students participated in the event to help out the needy peoples.

## EXPERT TALK /GUEST LECTURE

To get the knowledge of recent technologies which are used in industries, the department of mechanical engineering arranges expert talks from different fields.

Sr No	Guest / Expert Name	Company name with Designation	Topic	For Class
1	Mohasin Ali Jalgaonkar	Maintenance Engineer Sabic Chemicals Saudi Arabia	Job Opportunities in Gulf and how to apply for job in Saudi Arabia	B.Tech
2	Mr Shailesh Pandit	MD Shalaka Shafts Nashik	Jobs in 2030/VUCA Environment/fresher hiring.	T.Y. & B.Tech
3	Mr Suresh Aute	HR Dhoot Transmission Aurangabad	Placement for fresher	B.Tech
4	Mr Kalpak Gunjal	HR Meccaferrri Pvt ltd Pune	JOBS in 2021 Fresher recruitment	B.Tech
5	Miss Nivedita Wagh	SE Indian Railways	How to prepare for MPSC/UPSC	B.Tech

### VISION

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

### MISSION

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.

## INDUSTRIAL VISIT

The Mechanical Engineering department has arranged industrial visits of Final Year BTech students at ARAI Pune, BEDMUTHA Limited Nardana and Priyadarshani sutgirni Shirpur. Total number of students participated as given below-

Sr. No.	Company Visited	Number of students participated
1	ARAI ( Academy the Automotive Research Association of India Pune	46
2	Bedmutha Ltd Nardana.	112
3	Priyadarshani sutgirni.Shirpur'Dist Dhule	69



Industrial Visits at ARAI Pune



Industrial Visits at Bedmutha Ltd.Nardana.

### VISION

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

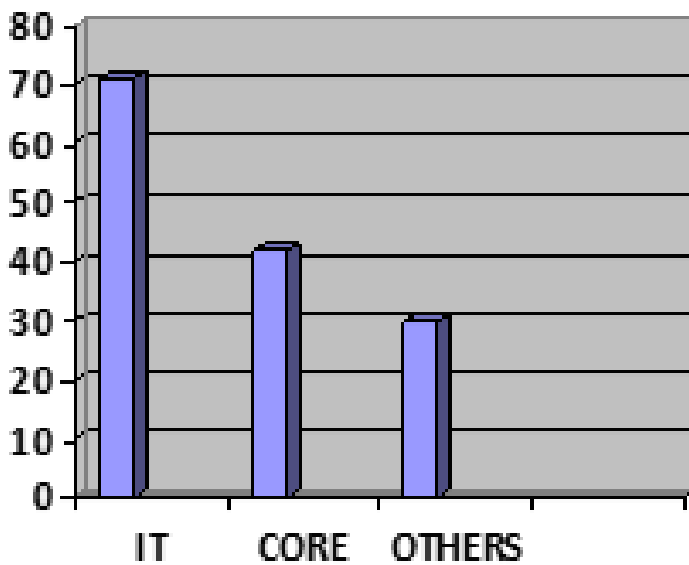
### MISSION

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.

## PLACEMENT ACTIVITY

The department of Mechanical Engineering had witnessed record placements in 2020-21. The students has got total 143 offers in year 2020-21. Some of the students get multiple offers in different Companies like Wipro, Infosys, KPIT, TSS, Capgemini, Clover, DTDC, Paramatrix, TCS(Digital), etc. This year students got average package of 2.5 LPA

### • 2020-21



### Editorial Board

Sr.No.	Name	Designation
1	Prof. P. L. Sarode	Head of the Mechanical Department
2	Prof. S. V. Yeole	Editor
3	Prof. Y. R. Pathak	Co-Editor
4	Jitendra Hivarkar	Student In-charge
5	Harshali Kulkarni	Student Co-In-charge

#### VISION

To achieve excellence in Mechanical engineering education with strong ethical values for serving the stakeholders.

#### MISSION

- To provide state-of-the-art facilities to Achieve Excellence in Education.
- To take up various value added courses to enhance Placement Potential.
- To use a creative teaching learning process to develop Research Aptitude.
- To instil Ethics, High moral values, and a lifelong learning mindset.