

ज्ञानम सकलजनहिताय

The newsletter of Department Mechanical Engineering

# **MECHPULSE**

Academic Year 2021-22 Term II



Principal: Dr.D.S.Bormane

**Editor Team** Mr.N N Gotkhindikar

> **Students Name** Sanskar Fursule Tanaya Jagtap

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**Our Inspiration** 

Shri Shahu Chhatrapati Maharaj President, AISSMS



Head of Dept.: Dr. B D BachchhaV

# From Principal's Desk:



AISSMS college of engineering has successfully completed its 29-year long journey since it's establishment in its academic year 2020-2021. Our institute has been bestowed with the prestigious Grade A+ accreditation by the National Assessment and Accreditation Council (NAAC), which brings me great pride and joy.

AISSMS College of Engineering remains at the forefront of academic excellence, consistently producing exceptional University gold medalists and top-performing students in diverse engineering fields. The dedicated faculty actively drives research and development endeavors, further elevating the college's standing in the academic community

DR. DS Bormane

After the lockdown the energy with which students and faculty has engaged itself in the process of learning and adapting to change is stupendous! Students opting for internships as per the new curriculum has predominantly helped them understand the industry environment. The efforts put by the faculty and staff to provide the students with industry visits and practical sessions has largely benefited the students of mechanical department.

All such and many more remarkable achievements have been presented in the Mechanical Department Newsletter 'MECHPULSE'. I would like to express my sincere congratulations to the Mechanical Department for their outstanding initiatives. I extend my best wishes to all the ambitious students, employers, and stakeholders associated with the Mechanical Department, encouraging them to strive for success in accomplishing their goals.

"Be willing to be beginner every single morning."

Meister Eckhart

**MECHPULSE** Page No:1

### FORM EDITORS DESK....

It gives us great pleasure to hand over to you "MECHPLUSE" the newsletter of Mechanical engineering department.

The department runs two undergraduate programs viz. Mechanical Engineering, Mechanical Engineering (Sandwich) and two PG programs with Automotive and Design Engineering as specialization. Department also run research Centre leading to Ph.D. Program. The department vision is to be excellence in value based on Mechanical Engineering Education.

Mechanical Engineering Sandwich pattern programme emphasizes on industrial training to students within four years of the study. Students are placed for training in the industry as per the curriculum of Savitribai Phule Pune University. The student learns industrial practices and also professional ethics.

MECHPLUSE is platform to communicate and underline department actions towards students development. Hope you will find this newsletter informative. Your suggestions for improvement in the newsletter are welcome.

Editors

# BE M/S STUDENTS 2021-22 ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S COLLEGE OF ENGINEERING

# Staff Achievement

Completion of PhD

Dr. S. R. Patil & Dr. M. R. Dahake

Congratulations...

### FROM HOD'S DESK...



A hearty welcome to the Department of Mechanical Engineering at *AISSMS COE*, *Pune*. The department has well qualified and dedicated faculty. The objective of the department is to prepare students for a successful career in industry, Research and Academics.

For the overall development of the student; department of mechanical engineering is associated with memberships of professional bodies such as SAEINDIA, Institution of Engineers (India), ISHRAE, FPSI. We formulated a Mechanical Engineering Students association i.e. MESA. Various activities of these chapters provide student to gain knowledge and interact with students and staff of other colleges/universities as well as Industry Engineers.

With end of this semester due to pandemic situation mode of learning goes online, which we took positively for continues learning of students. We start exploring opportunity in this inferior conditions face worldwide. Our students develop few solutions for COVID circumstances. MECHPLUSE is showcase of continuous progress of department towards excellence

### **Department Vision**

• To be recognized as a premier centre in the field of Mechanical Engineering Education.

### **Department Mission**

- To strive continuously for an advancement of academics and lifelong learning through effective teaching learning process.
- •To strengthen industry-institute interface, association with professional societies to develop leadership, team work and industry oriented attributes through internship.
- •To develop skill based mechanical engineering professionals for sustainable development through project based learning and active research.

### **Department Goals**

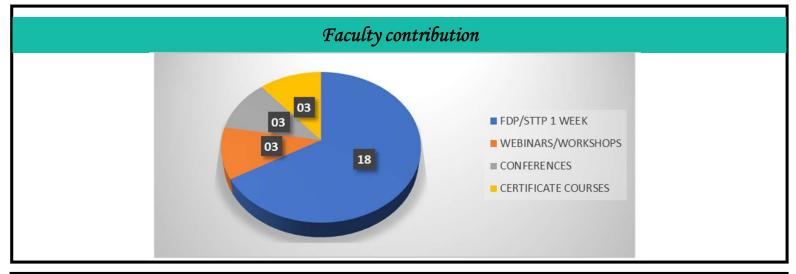
### **Short Term Goals**

- To enhance interaction with industry
- To strengthen association with professional bodies
- To establish a research centre
- To increase number of value added courses
- To modernize laboratories.

### **Long Term Goals**

- •To establish centre of excellence.
- •To improve the qualification of faculties
- •To help students for academic excellence to reach global standards.
- •To maximise entrepreneurship development activities.
- •To obtain accreditation from reputed bodies

MECHPULSE, Page No: 2



STAFF PUBLICATIONS			
Sr. No.	Faculty Name	Publication Detail	Year
1.	Dinesh Y. Dhande, Chandrakishore S. Choudhari	Prediction of spark ignition engine performance with bioethanol-gasoline mixes using a multilayer perception model, Vol. 40, Issue 2, 2021,ISSN 1099-6466, Petroleum Science and technology, Taylor & Francis	2022
2.	Mangesh R Phate	Analysis of Seat to Head Transmissibility of the Seated Human Body using Artificial Neural Network, ISSN [2250-0545], Springer	2022
3.	Mangesh R Phate	Multi-response Optimization and Analysis of Al/B4Cp MMC EDM using Grey Relational Analysis, , ISSN [1823-5514], Journal of mechanical Engineering	2022
4.	P S Gajjal, G.S. Lathkar	Fault diagnosis in an optimized rolling bearing using an intelligent approach, https://doi.org/10.1007/s00419-022-02134-0, Archive of Applied Mechanics	2022
5.	P S Gajjal, S Y Gajjal	A Novel Tuned Antlion-Grey Relational Dry Sintered Bearing for Bore Application Journal of the Brazilian Society of Mechanical Sciences and Engineering	2022
6	Bachchhav, B.D. and Kathamore, P.S.	Wear behavior of environment friendly trimethylolpropane trioleate-based lubricant", Industrial Lubrication and Tribology, https://doi.org/10.1108/ILT-12-2021-0469	2022
7	Bachchhav, B.D. and Kathamore, P.S.	Tribological investigations of trimethylolpropane trioleate bio-based lubricants, <a href="https://doi.org/10.1108/ILT-05-2021-0157">https://doi.org/10.1108/ILT-05-2021-0157</a> , Industrial Lubrication and Tribology, Vol. 73 No. 7	2022
8	Dr S V Chaitanya Dr D Y Dhande	Complex assembly Analysis for Geometric and Dimensional Tolerance to obtain selective assembly from partitioned bins using a multi-objective approach to control clearance variation of IC Engine, ISSN :2250-0545, Journal of The Institution of Engineers (India): Series C,Springer	2022
9	M P Bauskar	"Design And Development of Ultrasonic Plastic Welding Machine", ISSN2582-742, International Journal of Research Publication and Reviews	2022
10	N N Gotkhindikar	A Novel FDM Based Additive Manufacturing of PLA Components Using Optimized Deep Learning Strategy, ISSN 2321-9653, International Journal for Research in Applied Science & Engineering Technology	2022

MECHPULSE Page No: 3

### MOU'S Signed with the industries Name of Industry Date Valid upto **Faculty Coordinator** No. of MoU Signed (00/00/0000) Dr. B. D. Bachhav Setco Spindles India 18/02/2022 17/02/2025 1 (Pvt) Ltd Pune Dr. C. S. Chaudhari Dr. P. S. Gajjal Dr. B. D. Bachhav Stead Solve Design and 23/02/2022 22/02/2025 Manufacturing Solutions LLP Pune 3 Dr. S H Wankhade **UB** Cryogenic Solutions 04/03/2022 03/03/2025 LLP, Pune Dr. B. D. Bachchhav Institute of Systems 04/04/2022 03/04/2025 Pune. Dr. B. D Bachchhav SSIG Manufacturing 27/04/2022 26/04/2025 Advancements Pvt Ltd. Dr S V Chaitanya Pune



## **Activities**





Expert talk by Mr. Kiran Nawathe, Engineering Cluster Pune on Design Thinking and value Engineering (12/05/2022)





Project exhibition from Final year Mechanical engineering students at AISSMS COE, Pune

MECHPULSE Page No:4

# **Industrial Visits**







# **Awards & Recognition**



Team Garudashwa SAE Aerodesign won Globally first in Technical Design Report & Globally Second in Overall Performance

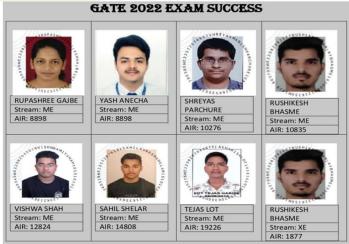


Resonance Racing m-Baja attended National Level Competition which was SAEINDIA BAJA 2022 won 8 prizes.



Winners in TCS Sustainathon Pune 2021





### NPTEL EXAM DOMAIN EXPERT

**GATE EXAM RANKERS 2022** 

"Scientists dream about doing great things. Engineers Do them."

James A Michener.

MECHPULSE Page No: 5