

Vol.02

July-May 2024

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was started in the academic year 2008-2009 with an aims of promoting high quality education of Mechanical Engineering in rural area. The department currently offers in diploma in Mechanical engineering program following the MSBTE curriculam. The teaching is assist with digitalized presentation for better understanding of the students. Industrial Visits are arranged for student gain practical experience.

VISION

To become center of excellence in the field of mechanical engineering..

MISSION

- M1. To adopt best teaching learning practice with well-equipped laboratories to assure quality education
- M2. To foster professional competency through technical workshop and industrial interaction.
- M3. To develop competency among faculty members.
- M4. To create collaborative environment that encourages faculties and students for innovative thinking and to provide a platform that brings into reality.

MESSAGE FROM CHAIRMAN



It is really a matter of pride and satisfaction to witness release of newsletter KIT (Polv) of Department mechanical engineering. Certainly it requires tremendous efforts to showcase student's talent in all aspects of curricular and extracurricular areas. Effort behind newsletter and its continuous sequel every deserve tons vear of appreciation. I believe that this issue will generate positive vibes students of the among department and will trigger creative thinking. . I wish all the best all of you.

MESSAGE FROM PRINCIPAL



Ι am glad to know that department of mechanical engineering of this college is bringing out the news leteer. I feel it's really a forum which could properly be used to express innvative thinking and creating writing. Iam very surethat this newsletter will be informative and resourceful.On this occasion I convey my bst wishes to students, Faculty members and head of mechanical department. I wish all the best all of you.

INDUSTRIAL VISIT AT "ACCUTECH ENGNEERS PVT.LTD" KOLHAPUR



Industrial visits provide an opportunity for students to see and experience real workstations, plants, machines, systems, assembly lines, and interact with highly trained and experienced persons. Industrial visits are usually the first point of interaction between a student and a live working industry. It can give a practical perspective of a theoretical concept relevant to their domain. Intending to go beyond classroom learning, the industrial visits contribute a lot in holistic student development by letting students learn about the current trends in the market, the future scenario of the industry and the new technologies that are being applied in the industry. The students learn about company policies in terms of production, quality, and service management and acquaint themselves with the working of instruments during the course curriculum. Industrial visits provide knowledge about the latest technology trend & help students to decide their future work areas like production, Design, Quality control, Research & development, Purchase, maintenance etc.

INDUSTRIAL VISIT AT "MAHINDRA STEEL SERVICE CENTER LIMITED" PUNE



Mahindra Steel Service Centre Ltd

Mahindra Steel Service Center Limited operates as a steel service centers. The Company offers steel solutions for the automotive, power and home appliance. Mahindra Steel Service Center serves customers in India.

From Mahindra & Mohammad, the company changed its name to Mahindra and Mahindra and its business too, from steel to Willys jeeps, which it started assembling in India. In 1961, Mahindra and Mahindra (now M&M) tied up with American company International Harvesters to manufacture tractors.

PAPER PUBLISHED IN (IJETRM) JOURNAL





Mr.Amol Chandrakant Babar (HOD of Mechanical department) FEA OF EXISTING ROCKER ARM OF COMPRESSION GARBAGE TRUCK

ABSTRACT

Experimental analysis of existing rocker arm is performed to determine stress and deformation. Later topology optimization is to be carried out for best optimized model leads to saving of material, cost as well as sustaining existing boundary condition. Manufacturing of new optimized model is compared with existing and analyzed in ANSYS software.

This project focuses on design optimization of Rocker arm targeting weight reduction with required strength and stiffness. Optimized design of arm is mandatory with appropriate material selection as well as valid finite element analysis. Optimization was performed considering static analysis of stress, strain and total deformation along with the suitable material selection. The experimental testing will be performed on universal testing machine. After making the comparative analysis result and conclusion was drawn.

Keywords:

Rocker arm, Structural steel, FEA, Topology optimization of Rocker arm





Mr.Sachin N. Gaikwad



Mr.Dnyanesh S. Bhagat (Lecturer of Mechanical department) (Lecturer of Mechanical department) (Lecturer of Mechanical department)



Mr. Sitaram P. Shinde

EVALUATING THE EFFICIENCY OF CAR RADIATORS THROUGH THE APPLICATION OF ALUMINUM OXIDE AND LEMON JUICE AS NANOFLUIDS ABSTRACT

Heat is a thermal energy which is transferred between two mediums. It actually spread over a boundary of thermodynamic system. The thermodynamic free energy is the one in which the amount of work that a thermodynamic system can perform is performed. The Enthalpy is a thermodynamic potential and energy. Keywords: Aluminum oxide (Al2O3), Radiator, Nano Fluids.



MESA EVENT 2024











INPLANT TRANING







To Whom It May Concern

This is to certify that Mr Shreeyash Tukaram Lamkane has satisfactorily completed Inplant Training at our Engg. Dept. (Sugar Mill & Co-generation) Boling house, Centrifugal, Distillery, Co-gen. His training period was from 07.06.2023 to 23.07.2023. He is successfully completed his Training.

This certificate is being given to him on his request.

Managing Director



Ref: SST/SI 2023/36

TO WHOMSOEVER IT MAY CONCERN

This is to cettify that Mr.Akash Abhiman Sansan of Karmyogi Institute of Technology (Polytechnic) Pandharpur Ias done his interniship in "Solar Equipment Design And Making" at SPARTAN SOLAR TECHNOLOGIES, Mangalwedha, from 07° Jane 2023 to 25° July 2023

During his internship he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time

We wish him all the best for his upcoming career.

For SPARTAN TECHNOLOGIES PVT. LTD,

Dhanashree Doke [HR Partner]



Suraj Dok



SPARTAN TECHNOLOGIES PVT LTD

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Ref: SST/SL2023/36 Date- 25/07/2023

LECTURES BY INDUSTRY EXPERTS





TRAINING & PLACEMENT











Shri Pandurang Pratishthan Pandharpur's KARMAYOGI INSTITUTE OF TECHNOLOGY (POLYTECHNIC) SHELVE, TAL.PANDHARPUR, DIST.SOLAPUR









कर्मयोगी पॉलिटेक्निकमध्ये मैदानी स्पर्धेचे आयोजन

🖌 सुराज्य / पंढरपूर

पुराजय/पढेपपु इंटर इंजीविज्यांक, हिल्लोम कृंदवलों, क्यांतीहर्णक, द्वार मेदवा स्पर्वेव उत्याउनक हि. ५ केंद्रुवारों उंजी क्यंतीगीनी संदिदिक्वकच्या मेदवालार केंडे रहेते. स्पर्वेव उद्यादव सोसिटेकिक कांडोजने हैर मेदेवजी क्यांतार से प्रारं राजीवन हिर्मालेका विभागां प्रमुख प्राजीवनी हर्ष सोलेका रसोस कॉनेजने हिंग मेतेका रसोस सार्वे विभाग एक कोंदोजम्बल 1900 हवा व्यकित विद्यावी व विद्याविंगीकी सरमान कार्वदिवार, आताफेक मये



शा. तं. कॉलेज सोलापूर वेथे झालेल्वा खो-खो स्पर्यमध्वे शिवाजी पॉलिटेविनक कॉलेजच्वा संयावर एक डाव चार गुणांनी विजव संपादन केला. संपामध्वे राम ढोबळे, रितेश पाटील, रुपेश पाटील, सिखनाय जनकेल्य जिल्हन्म प्रान्तेये कमांक मिळविला, १५०० मी, क्रमाक मिळावता. १५०० मा. राजिंगमध्ये संकेल पिसेने द्वितीय ,तर कर्मयोगी कॉलेजच्या रिखे दिमने उपविजेतेपर मिळवल. त्यामध्ये सुशांत साळुंखे, संकेत पिसे सचिन कदम, प्रेम यांडे वांनी सहभाग

गारगोटी वेथे होणाऱ्या नारणाटा येय हाणाऱ्या राज्यस्तरीय स्पर्येसाठी या संयाची निवड झाली. वशाबदल संख्येचे चेअरमन रोहन परिवास्क, पॉलिटेविनक कॉलेजचे प्राचार्य पालटावलक कादाजय प्राचाव कॉ.ए.बी.कणसे, कर्मवोगी इजिस्टव्यूट ऑफ टेक्वोलॉलॉजी प्राचार्व डॉ.एस.पी.पाटील, रजिस्ट्रार गणेश वाळके वांनी अभिवंदल केले. स्पर्येसाठी विवार्ध्वाजी कोठा संचालक बी जे सालुखे वांनी मार्गदर्शन केले.

ओमराज खेडेकर, चैतलव वाप, चैतलव कदम, प्रवीण उपाशे, ओम उपाशे, प्रेम यांठे, श्रीराम कुलकर्णा, नौरव खेडेकर, कृष्णा मोरे, प्रकुल पवार वांनी चमकदार कामनिरी केली.

OUR ACHIVERS

Second year Mechanical



Dhande Prem Jotiram 88.32%







Gurav Siddharth Bhagwat 82%

Third year Mechanical



Sawnat Chaitanya Digambar 85.81%



Sawant Akash Abhiman 85.73%



Anantkawals Chetan Hanumant

85.81%

SOCIAL MESSAGE FOR SOCIETY



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