

### SHRI PANDURANG PRATISHTHAN PANDHARPURS,

#### Karmayogi Institute of Technology

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Vol.01 July-Dec 2022

#### 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** (Poly) Department of 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 appreciation. I believe that this issue will generate positive vibes of the students among department and will trigger creative thinking. . I wish all the best all of you.

## MESSAGE FROM PRINCIPAL



am glad to know that department of Mechanical Engineering of this college is bringing out the news leteer. Ifeel it's really a forum which could prperly 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 head of civil department. I wish all the best all of you.

# INDUSTRIAL VISIT AT "DATTA KAMAL COLD STORAGE" KASEGAON





## **INDUSTRIAL VISIT AT "S.G.GEARS" TEMBHURNI**





## PAPER PUBLISHED IN (IJAEM) JOURNAL.



#### LASER BEAM MACHINING – AN OVERVIEW

ABSTRACT: LASER BEAM MACHINING (LBM) IS A NONCONTACT TYPE **NON-CONVENTIONAL** THERMAL MACHINING PROCESSES. WHEN LASER BEAM FOCUS ON METAL SURFACE THEN MATERIAL MELTS, VAPORIZE AND REMOVES FROM THE WORK PIECE .THERE HAVE NO.OF PROCESS PARAMETERS THAT AFFECTS ON QUALITY OF WORKPIECE.IN RECENT YEARS RESEARCHERS HAVE DISCOVERED VARIOUS WAYS TO ENHANCE THE PERFORMANCE OF LASER BEAM CUTTING (LBC) BY EXAMINING DIFFERENT FACTORS THAT AFFECTS QUALITYCHARACTERISTICS OF LASER BEAM **CUTTING. THE EXPERIMENTAL ANALYSIS SHOWS** THAT PERFORMANCE OF PROCESS CAN BE IMPROVED BY SELECTING CORRECT LASER PARAMETERS, OPERATINGPARAMETERS, AND MATERIAL PARAMETERS. THIS PAPER GIVES DETAILED LITERATURE REVIEW OF LASER BEAM MACHINING PROCESS.KEYWORDS: LASER BEAM MACHINING(LBM), LASER BEAM CUTTING(LBC)



A REVIEW OF VIBRATION ANALYSIS ON DEEP GROOVE BALL BEARING BY USING SIGNAL PROCESSING TECHNIQUES

**ABSTRACT: VIBRATION ANALYSIS IS USED AS A** CONDITIONING MONITORING TOOL FOR BEARING FAULT DETECTION AND DIAGNOSIS. THIS PAPER REVIEWS SOME OF THE IMPORTANT FACTORS WHICH EFFECT ON THE BEARING VIBRATION, INCLUDING DIFFERENT MODES OF FAILURE. THE MORE COMMON TECHNIQUES WHICH WERE USED COMPRISE TIME AND FREQUENCY DOMAIN TECHNIQUES. THESE INCLUDE OF TECHNIQUE SUCH AS RMS, CREST ACTOR, PROBABILITY DENSITY FUNCTION, CORRELATION FUNCTION, BAND PASS FILTERING PRIOR TO ANALYSIS, POWER AND CROSS POWER SPECTRAL DENSITY FUNCTION, TRANSFER AND COHERENCE FUNCTION AS WELL AS CEPSTRUM ANALYSIS, NARROW BAND ENVELOPE ANALYSIS AND SHOCK METHOD.

KEYWORDS: TIME DOMAIN TECHNIQUE, FREQUENCY DOMAIN TECHNIQUE, ENVELOPE ANALYSIS

### **MESA EVENT**











## LECTURES BY INDUSTRY EXPERTS









## TRAINING & PLACEMENT



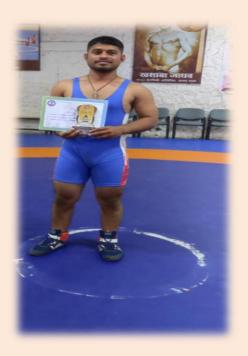








## **Sports**









### कर्मयोगी पॉलिटेक्निकचे यश

फस्पा पार्टिं चंडरपूर, ता. २५ : वाशों येथे गालेल्या आयद्वर्धप्रसप्सम् सी होन क्रातीमच्ये शेळ्ये (ता. पंडरपूर) येथील कर्मयोगी पॉल्टियेननक कॅलिंजमधील वैभव नवाळे (७४ किलो गट), रावस्माहेव कोडलकर (७१ किलो गट), शुभ काळे (५४ किलो गट) यांनी ता वेटलिस्टंग व्यांप्रध्ये सुजीत दिवाण (८६ किलो गट) यांनी प्रध्यम क्रमांक पटकाविला. कुरती स्पर्धमध्ये प्रस्ता होडे (६१ किलो गट), सुझात गिड्डे (६५ किलो गट), सुझात गिड्डे (६५ किलो गट), सुझात विवाण (८६ किलो गट) यां विधाध्यांनी हितीय क्रमांक पटकाविला. यशस्वी विधाध्यांची गारिक येथे होणाऱ्या राज्यस्तरीय

स्पर्धसाठी निवड झाली आहे. कर्मयोगी पॉलिटेविनकमध्ये झालेट्या अध्येटेटीक स्पर्धमध्ये ४०० मीटर धावणेमध्ये आकाश साठे व ८०० मीटर धावणेमध्ये नरेश राकळकर याने मीटर धावणेमध्ये नरेश राजळकार यां-प्रथम क्रमांक आणि थाळीफेक स्पर्धेत नागनाथ माळी यांने तृतीय क्रमांक मिळिक्ला. यशस्त्री विद्याख्याँचे माजी आमदार मुधाकर परिचारक, आमदार प्रशांत परिचारक, प्राचार्य ए. बी. कणसे, रजिस्ट्रार गणेश वाळके, विभागप्रमुख प्रा. डोंगरे, प्रा. कारेके, प्रा. चनकारें, प्रा. गोर्स्स, प्रा. जास्व यांच्यासह प्राध्यापक, विभागप्रमुख, अधिकारी व पालकांनी अभिनंदन



## **OUR ACHIVERS**



Chetan Anantkawals 83.90%



Akash Sawant 82.74%



Harshwardhan Masake 76.00%



Araya Gidde 77.13%



Prasad sagar 76.13%



Gauri Ranpise 74.38%

### **SOCIAL MESSAGE FOR SOCIETY**





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