Mr. Shambhu Kumar

Assistant Professor
Ph. D. (Appearing), M.E. (Heat Power), B.E. (Mechanical Engineering)
9730199404(M)
shambhusaw.tae@kjei.edu.in shambhu.keshari@gmail.com

Experience: 10.5 years

Research Interest

Refrigeration & Air Conditioning, Heat Transfer Enhancement, Alternative fuels.

Research Publications and Citations

International Journal : 05 International Conferences : 01 National Conferences : 07

Workshop/Seminar Attended/Courses

- NPTEL (08 Weeks) certification Examination Course IIT Roorkee for 'Refrigeration and Air Conditioning.' In 2019.
- NPTEL (04 Weeks) certification Examination Course IIT Roorkee for 'Convective heat transfer.' In 2018.
- Attended 1 week program for topic of 'Leapfrogging to future ready higher education **'**, in Jan. 2019 Organized by MIT Kothrud, Pune.
- Attended 7 days FDP program for topic of '**Data Science'**, in August 2019 Organized by Shivaji University under MHRD initiated PMMMNMIT scheme.
- Attended 7 days FDP program for topic of '**Cyber Security'**, in May 2019 Organized by Shivaji University under MHRD initiated PMMMNMIT scheme.
- One week short term training programme on **'' Fluid Mechanics''** during 11th Dec. 15th Dec. 2017 in ZEAL College of Engineering & Research, Narhe Pune.
- Two-week ISTE Workshop on **''Engineering Thermodynamics''** Conducted by IIT Bombay under the National Mission on Education through ICT (MHRD, Govt. of India), 11th Dec.- 21st Dec. 2012.
- One week short term training programme on **''Recent Trends in Automotive Engineering''** during 27 Dec. 31 Dec. 2011 in Rajendra Mane College of Engineering & Technology, Ratnagiri.

UG Project guided/ PG Project guided

- Solar Power Solid Adsorption Water-Cooler.
- Material Handling Car with Automatic Retuning.
- Pneumatic Vehicle
- Waste Cooking Oil Biodiesel Blends Fuelled In Single Cylinder 4 Stroke CI Engine with Additives as an Alternative Fuel.
- Heat Transfer Intensification in Flat Plate Solar Collector by Using Nano Fluid
- Implementation of Maglev Turbine & Solar Panel for Street Light.
- Semi-Auto Pneumatic Gear Box & Lubrication System.
- Design & Manufacturing of Thermo-syphon Heat Pipe to Improve Heat Transfer rate.
- Air conditioning of car by thermoelectric effect.

Subjects Taught

- Applied Mechanics
- Basic Mechanical Engineering
- Engineering Graphics
- Thermodynamics
- Applied Thermodynamics
- Metallurgy
- Tool Engineering
- Hydraulics & Pneumatics
- Fluid Mechanics
- Heat Transfer
- Refrigeration & Air Conditioning
- Manufacturing Process

Publications

1. Design & Manufacturing of thermo syphon heat pipe to improve heat transfer, International Journal mechanical Robotics & Production Engineering,Vol-8, issue-6, oct-2018.
2. "Semi-Automatic Pneumatic Gear box & Lubrication system", International Advanced Research Journal in Science, Engineering & Technology, Vol.5, issue 12, ISSN:2394-1588.
3. Automatic Gear Shifter for Two Wheelers", International Journal for Scientific Research & Development, Vol.6, issue 11,ISSN:2321-0713.
4. *Enhancement of forced convection heat transfer over dimple surface,* International Journal of Electronics, Communication & Soft Computing Science and Engineering (IJECSCSE), Volume I, Issue I- 2012.
5. *Enhancement of forced convection heat transfer over dimple surface,* International Conference on Recent Trends in Engineering & Technology 'ICRTET-2012' March 23rd to 25th, 2012
6. *Enhancement of forced convection heat transfer over dimple surface,* International Multidisciplinary e - Journal ISSN 2277 – 4262, Volume I Issue II Feb 2012.
7. *Performance and emission emissions of WCO Biodiesel & additives fuelled in CI Engine,* National Conference on Renewable energy technologies & Energy Efficient Systems NCRETEES-2016, Oct. 27 & 28 2016, 229-231
8. *Performance and emission analysis of WCO Biodiesel & the effect of adding oxygenate DEE as additives with EGR technique,* National Conference on Renewable energy technologies & Energy Efficient Systems NCRETEES-2016, Oct. 27 & 28 2016, 229-231
9. *Enhancement of heat in tube through twisted tape,* National Conference on 'Advances in Chemical & Mechanical Engineering' "NCACME-2012" organized by Gharada Institute of Technology on January 27-28 2012.
10. *Enhancement of forced convection heat transfer over dimple surface-Review,* National Conference on 'Advances in Chemical & Mechanical Engineering' "NCACME-2012" organized by Gharada Institute of Technology on January 27-28 2012.
11. *Heat transfer enhancement of laminar flow through the round tube by passive techniques,* National Conference on Science & Technology "SCITECH 2012. 6th & 7th January 2012. 103
12. *Enhancement of forced convection heat transfer coefficient using modified protrusions dimples,* National Conference on Science & Technology "SCITECH 2012. 6th & 7th January 2012. 101
13. *Planning for Renewable energy & Vision-2020,* National Conference on Emerging Trends In Engineering & Technology NCETET, Sep. 30, 2011, 229-231.