

STAFF PROFILE



Dr. Pritee Purohit

Assistant Professor

Mechanical Engineering

pmpurohit@aitpune.edu.in

Date of Joining
21/07/2008

Nature of Appointment
Regular

Educational Details

Qualification	Degree	University	Grade	Year
Diploma	DME	Nasik	77.00	2000
Graduation	BE Mechanical	NMU	71.14	2004
PG	ME Heat Power	Pune University	62.93	2006
SSC	SSC	Nasik	79.28	1995
Doctoral	PhD (Metallurgy Engineering)	SPPU	NA	2017

Areas of Interest

Heat transfer enhancement, Fluid mechanics, Thermal engineering, Heat transfer analysis using fins, Heat transfer analysis in micro channel heat sinks, High temperature corrosion, Corrosion, Hot corrosion, Thermal barrier coating, Refrigeration and Air-conditioning

Experience Details

Total : 2.00 years	Teaching : 2.00 years	Research : 0.00 years	Industry : 0.00 years
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Type	Duration/ Period	Designation/ Organisation Name	Brief Job Profile
Educational	2.00 Years 01/03/2006 to 30/06/2008	Lecturer SRES COE Kopergaon	Teaching

Journal Publications

1. Pritee Purohit, Prof R B Gurav, (2020). [Heat transfer enhancement in motor-bike silencer using delta Wing vortex generator](#). *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*. Vol. 10(Issue 2), 901-908. ISBN/ ISSN No : 2249-6890. URL : http://www.tjprc.org/view_paper.php?id=12574.
2. Pritee Purohit, Prof R B Gurav, (2020). [Heat transfer enhancement in motor-bike silencer using delta Wing vortex generator](#). *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*. Vol. 10(Issue 2), 901-908. ISBN/ ISSN No : 2249-6890. URL : http://www.tjprc.org/view_paper.php?id=12574.
3. Pritee Purohit, (2019). [Hot Corrosion](#). *Marathi Vishwakosh (Maharashtra Raja Marathi Vishwakosh Nirmiti Mandal)*. -(-), -. ISBN/ ISSN No : -. URL : <https://marathivishwakosh.org/5362/>.
4. Pritee Purohit, (2019). [Oxidation Rate Laws](#). *Marathi Vishwakosh (Maharashtra Raja Marathi Vishwakosh Nirmiti Mandal)*. -(-), -. ISBN/ ISSN No : -. URL : <https://marathivishwakosh.org/5359/>.
5. Pritee Purohit, (2019). [Coating](#). *Marathi Vishwakosh (Maharashtra Raja Marathi Vishwakosh Nirmiti Mandal)*. -(-), -. ISBN/ ISSN No : -. URL : <https://marathivishwakosh.org/5364/>.
6. Pritee Purohit, (2018). [High Temperature Oxidation](#). *Marathi Vishwakosh (Maharashtra Raja Marathi Vishwakosh Nirmiti Mandal)*. -(-), -. ISBN/ ISSN No : -. URL : <https://marathivishwakosh.org/1155/>.
7. Pritee Purohit, (2018). [Thermal Barrier Coating](#). *Marathi Vishwakosh (Maharashtra Raja Marathi Vishwakosh Nirmiti Mandal)*. -(-), -. ISBN/ ISSN No : -. URL : <https://marathivishwakosh.org/1109/>.
8. Pritee Purohit, (2016). [Evaluation of alumina incorporated combined ceramic layer thermal barrier coating](#). *Surface and Coating Technology*. 307(A), 871-878. ISBN/ ISSN No : 0257-8972. URL :

<http://www.sciencedirect.com/science/article/pii/S0257897216310167?via%3Dihub>.

9. Pritee Purohit, (2015). [Experimental investigation of heat transfer enhancement on polished and unpolished \(corroded\) pipe](#). *International Journal of Modern Trends in Engineering and Research (IJMTER)*. 02(7), 1777-1781. ISBN/ ISSN No : 2349-9745. URL : https://www.ijmter.com/special_issues/experimental-investigation-of-heat-transfer-enhancement-on-polished-and-unpolished-corroded-pipe/.
10. Pritee Purohit, (2013). Comparative study of addition of REM, Ni and TiO₂ on hot dip zinc coatings: A Review. *Technical Journal of Institution of Engineers (India) Pune Local Centre*. 37(Nov 2013), 261-265. ISBN/ ISSN No : 978-81-924990-1-7.
11. S M Gaikwad, Pritee Purohit, (2013). Natural heat Convection through Dimple plates. *International journal of Global Technical Initiatives*. 2(1), 69-71. ISBN/ ISSN No : 978-93-5067-450-5.
12. S M Gaikwad, Pritee Purohit, (2013). Natural heat Convection through Dimple plates. *International journal of Global Technical Initiatives*. 2(1), 69-71. ISBN/ ISSN No : 978-93-5067-450-5.

Conference Publications

1. SM Gaikwad, RB Gurav, Dr Pritee Purohit, (2019). Experimental study of heat transfer enhancement in a novel Padma Heat sink minichannel. *25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference*. (-), -. ISBN/ ISSN No : -.
2. pritee purohit, (2016). Isothermal and hot corrosion behavior of thermal barrier coatings (TBC). *The 17th Asian Pacific Corrosion Control Conference*. (-), -. ISBN/ ISSN No : -.
3. Pritee Purohit, (2016). Study of alumina incorporated thermal barrier coating. *18th National Congress on Corrosion Control*. .(.), .. ISBN/ ISSN No : ..
4. Pritee Purohit, (2015). Experimental investigation of heat transfer enhancement on polished and unpolished (corroded) pipe. *4th International Conference on Recent Trends in Engineering and Technology. 2-4 July 2015*. (-), 183-186. ISBN/ ISSN No : -.
5. Pritee Purohit, (2014). Study of cyclic oxidation behavior of TBC. *NMD ATM 2014*. (-), -. ISBN/ ISSN No : -.
6. R B Gurav, Pritee Purohit, (2013). CFD Simulation on Fluid flow in Micro channel Heat Exchanger. *International Conference on Global Technology Initiatives*. 2(1), E23 - E30. ISBN/ ISSN No : 978-93-5067-450-5.
7. R B Gurav, Pritee Purohit, (2013). CFD Simulation on Fluid flow in Micro channel Heat Exchanger. *International Conference on Global Technology Initiatives*. 2(1), E23 - E30. ISBN/ ISSN No : 978-93-5067-450-5.
8. R B Gurav, Pritee Purohit, (2013). Natural heat Convection through Dimple plates. *IGIT*. 2(-), E69-E71. ISBN/ ISSN No : -.
9. R B Gurav, Pritee Purohit, (2013). Natural heat Convection through Dimple plates. *IGIT*. 2(-), E69-E71. ISBN/ ISSN No : -.
10. Pritee Purohit, S T Vagge, (2013). Comparative study of addition of REM, Ni and TiO₂ on hot dip zinc coatings: A Review. *Annual Technical paper meet 2013*. (-), -. ISBN/ ISSN No : -.
11. Pritee Purohit, S T Vagge, (2013). Comparative study of addition of REM, Ni and TiO₂ on hot dip zinc coatings: A Review. *Annual Technical paper meet 2013*. (-), -. ISBN/ ISSN No : -.
12. S M Gaikwad, Pritee Purohit, (2013). Experimental Investigation of Heat Transfer on Dimple and Flat Plate. *Int Con on GTI*. (-), -. ISBN/ ISSN No : -.
13. S M Gaikwad, Pritee Purohit, (2013). Experimental Investigation of Heat Transfer on Dimple and Flat Plate. *Int Con on GTI*. (-), -. ISBN/ ISSN No : -.
14. Pritee Purohit, (2012). Properties and specifications of biodiesel and their influence on performance of engine: A Review. *I-CORT*. (-), -. ISBN/ ISSN No : -.
15. S M Gaikwad, Pritee Purohit, (2012). CFD Simulation on Heat Transfer Characteristics of Laminar Air Flow Over Flat and Dimple Plates (In-line and staggered configurations). *International Conference on Emerging Trends in Engineering*,. (-), -. ISBN/ ISSN No : -.
16. S M Gaikwad, Pritee Purohit, (2012). CFD Simulation on Heat Transfer Characteristics of Laminar Air Flow Over Flat and Dimple Plates (In-line and staggered configurations). *International Conference on Emerging Trends in Engineering*,. (-), -. ISBN/ ISSN No : -.
17. S M Gaikwad, Pritee Purohit, (2012). CFD Simulation on Heat Transfer Characteristics of Laminar Air Flow over Flat and Dimple Plates (single, in-line and staggered configurations). *2nd International Conference on Engineering, Technology and Management*. (-), -. ISBN/ ISSN No : -.
18. S M Gaikwad, Pritee Purohit, (2012). CFD Simulation on Heat Transfer Characteristics of Laminar Air Flow over Flat and Dimple Plates (single, in-line and staggered configurations). *2nd International Conference on Engineering, Technology and Management*. (-), -. ISBN/ ISSN No : -.
19. Pritee Purohit, (2012). Biodiesel: At Low Temperature. *International Conference on Global Technology Initiatives*. 1(-), B26 - B29. ISBN/ ISSN No : 978-93-5067-450-5.
20. Pritee Purohit, S M Gaikwad, (2012). CFD simulation of Heat Exchanger used in Pulse tube. *ICORT*. (-), -. ISBN/ ISSN No : -.
21. Pritee Purohit, S M Gaikwad, (2012). CFD simulation of Heat Exchanger used in Pulse tube. *ICORT*. (-), -. ISBN/ ISSN No : -.

22. S M Gaikwad, Pritee Purohit, (2012). AVIATION: ALTERNATE FUEL. *2nd International Conference on Engineering, Technology and Management*. -(-), -. ISBN/ ISSN No : -.
23. S M Gaikwad, Pritee Purohit, (2012). AVIATION: ALTERNATE FUEL. *2nd International Conference on Engineering, Technology and Management*. -(-), -. ISBN/ ISSN No : -.
24. Pritee Purohit, (2011). Determination of Performance and Emission Characteristics of IDI Dual Fuel Engine. *ICOST*. -(-), -. ISBN/ ISSN No : -.
25. S M Gaikwad, Pritee Purohit, (2011). Analysis of Cyclic Flow Heat Exchangers Used in Pulse Tube Refrigerator. *ICOST*. -(-), -. ISBN/ ISSN No : -.
26. S M Gaikwad, Pritee Purohit, (2011). Analysis of Cyclic Flow Heat Exchangers Used in Pulse Tube Refrigerator. *ICOST*. -(-), -. ISBN/ ISSN No : -.
27. Pritee Purohit, (2006). Development of indirect injection Dual fuel engine for gen-set application. *TEQIP sponsored National Conference on Recent Trends in Mechanical Engineering*, . -(-), -. ISBN/ ISSN No : -.
28. V Sonkamble, Pritee Purohit, (2006). FEM analysis of spur gear tooth in contact. *National Conference on Recent Trends in Mechanical Engineering*. -(-), -. ISBN/ ISSN No : -.
29. V Sonkamble, Pritee Purohit, (2006). FEM analysis of spur gear tooth in contact. *National Conference on Recent Trends in Mechanical Engineering*. -(-), -. ISBN/ ISSN No : -.
30. P Patare, Pritee Purohit, (2006). Analysis of aircraft fuselage structure. *National Conference on Recent Trends in Mechanical Engineering*. -(-), -. ISBN/ ISSN No : -.
31. P Patare, Pritee Purohit, (2006). Analysis of aircraft fuselage structure. *National Conference on Recent Trends in Mechanical Engineering*. -(-), -. ISBN/ ISSN No : -.

Book Chapters

1. Pritee Purohit, Shashikant Vagge, (2018). [Oxidation Behavior of LTA/YSZ Intermixed Layer Coating](#). *Production, Properties, and Applications of High Temperature Coatings*. IGI Global. ISBN/ ISSN No : ISBN13: 9781522541943.

Patent

1. Pritee Purohit, (2017). 201721024510 A. *PADMA HEAT SINK*. 04/08/2017, India.
2. Pritee Purohit, (2016). 201621002053. *Work bench with USB Microscope for Micro art on rice*. 12/02/2016, India.
3. Pritee Purohit, (2016). 201621002035. *Modified silencer with unique protective shield*. 12/02/2016, India.
4. RAVIRAJ GURAV, PRITEE PUROHIT, SANJAY GAIKWAD, (2016). 20621012053A. [Work bench with USB microscope for Art on Rice](#). 12/02/2016, India.
5. SANJAY GAIKWAD, PRITEE PUROHIT, RAVIRAJ GURAV, MANISHA NILKANTH, (2016). 20621012053A. [Work bench with USB microscope for Art on Rice](#). 12/02/2016, India.
6. Pritee Purohit, (2016). 4821/MUM/2015. *ECONOMICAL MULTIPURPOSE CUTTER FOR SHANKARPALI, PURI, DISCO PAPAD AND OTHER SUCH ITEMS*. 15/01/2016, India.
7. Pritee Purohit, (2016). 4822/MUM/2015. *Breaking system with better vehicle stability using non-uniform contact pressure for two wheeler*. 15/01/2016, India.

Workshop

1. One week FDP on Effective Proposal Writing for Research and Funding (Attended), Effective Proposal Writing for Research and Funding, 2020, Online
2. One week FDP on OpenFOAM (Attended), OpenFOAM, 2020, Online
3. Foundation Program in ICT for Education (Attended), ICT, 2018, Pune
4. Four Week AICTE approved FDP by IIT Bombay on - Use of ICT in Education for Online and Blended Learning (Attended), Use of ICT in Education for Online and Blended Learning, 2016, College of Engineering Pune
5. Two week AICTE sponsored FDP on Manufacturing Excellence (Attended), Manufacturing Excellence, 2015, Sangamner

Research Grants

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Role of Investigator

Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role

Professional Memberships

Society	Membership No	Duration	
ISTE	LM50001	16/01/2018	01/01/2071
The Indian Institute of Metals	PO1-LM-54406	02/11/2015	01/01/2071

Achievements/ Contribution

Year	Details
2019	Newspaper article related to Mentorship for Juveniles (Lokmat)
2019	Newspaper article related to Mentorship for Juveniles (Maharashtra Times)
2019	Best Teacher Award 2017-18
2017	BEST RESULT AWARD (BE) CFD

No of PhD Students Guided : 0 **No of PG Students Guided** : 2
No of PhD Awarded Students : 0