

Curriculum Vita

PERSONAL DETAILS

Name Dr. Laljee Prasad
Qualification: Ph.D. in Mechanical Engg.
Designation: Assistant Professor
Mechanical Engineering Department
Current Employer: National Institute of Technology, Jamshedpur, INDIA
Date of Birth: 03/10/1967
Address of Correspondence: A-8, N.I.T, Campus,
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ACADEMIC QUALIFICATION

S. No.	Degree	Board/University	Year	Percentage/Div.
1.	PhD	IIT Roorkee	2005	--
2.	M.Tech	ISM Dhanbad	1994	1st
3.	B.Sc Engg.	Bhagalpur University	1989	1st

AREAS OF RESEARCH

- Heat Transfer
- Energy Studies
- CFD Studies

Employment Details

Joined as Assistant Professor, National Institute of Technology, Jamshedpur Since, 1996 and Continuing till date.

Ph.D. Supervised: Four completed, three ongoing,

S.NO	TITLE	Year
1	Investigation of Parameters Affecting the Energy and Exergy Performance of Inlet Air Cooled Combined Cycle Plant	2012
2	Investigation for heat transfer and friction factor characteristics in three sides artificially roughness solar air heater	2016

3	Heat transfer augmentation in three side inclined wire roughness solar air heater	2018
4	Thermal performance investigation of three side concave dimple shape roughness solar air heater.	2019
5	Heat transfer and friction characteristics in three sides solar air heater with combination of multi-V.	ongoing
6	Thermal performance of solar water heater insert twisted tape	ongoing

M. Tech Supervised: 23 completed.

S.NO	TITLE	YEAR
1	Implementation of daily management in G-blast furnace of TATA STEEL (case study)	2007
2	CFD modeling of batch annealing furnace using hunt	2007
3	Materials management planning and sourcing for steel industry – (Case study) TATA STEEL	2007
4	Implementation of operational excellence in a manufacturing industry (Case study)	2008
5	Comparative study of design and operating parameter on thermal power plant efficiency	2009
6	Computer aided selection of antifriction bearing	2010
7	Design and analysis of dies for pressure die casting	2011
8	Fracture behavior of dissimilar metal weld materials 304 LNSS and SA508CL steel in nuclear piping.	2012
9	Effect of relative roughness weight on performance of artificially roughed solar air heater	2014
10	Data code development for artificially roughness solar an heater	2014
11	Effect of relative roughness height on performance of artificially roughed solar air heater	2014
12	Study of heat transfer between concentric tubes at high temperature	2015
13	CFD analysis of circular transverse wire ribbed solar air heater	2015
14	CFD analysis of semi circular transverse roughened solar air heater	2015
15	CFD analysis of solar air heater with corrugated absorber plate	2016
16	Experimental study of artificially roughened solar air heater	2016

17	Condition based equipment maintenance based on online vibration monitoring	2017
18	CFD analysis of thermo-hydraulic performance of three sides artificial roughened solar air heater	2017
19	Modeling and simulation of three phase grid connected solar PV invested with MPPT	2018
20	CFD analysis of three sides artificially dimple roughened solar air heater	2018
21	Performance evaluation of boiler in 46MW biogases based cogeneration power plant	2019
22	CFD analysis of double flow flat plate solar air heater with dimple ribs in angular fashion on both sides of absorber plates	2019
23	CFD analysis of dimple shape roughened solar air heater	2019

Administrative Experience:

S.NO	Details	Year
1	Member Curtain purchase committee	1999
2	Assistant Warden –D hostel	1999-2006
3	Assistant Warden –H hostel	2010
4	Prof.-In charge vehicle	2005-2006 & 2008-2009
5	The Co-ordinate of CEP	2013-2018

Selected List of Research Publications:

1. A.k.Mohapatra Sanjay and L.prasad, Thermodynamics analysis of the effect of blasé cooling method on air humidifier integrated gas turbine cycle. Journal of the energy Vol.85 pp-61-69.(2012)
2. A.k.Mohapatra Sanjay and L.prasad, Parametric analysis of cooled gas turbine cycle with evaporative inlet air cooling.IJSER VOL 3,March,(2012)
3. A.K.Mohapatra, L.Prasad, Prof. Sanjay: Thermodynamic analysis of the effect of blade cooling methods on air humidifier integrated gas turbine cycle - Journal of the Energy Institute- SCI vol:85 issue:2 pp:61-69 (2012)

4. B.N.Prasad Arun K Behura and L.Prasad, Fluid flow and heat transfer analysis for heat transfer enhancement in three side artificially roughness solar heater.Solar Energy 105, pp-27-35 (2014)
5. Ravi Kumar L.Prasad and B.N.Prasad: Heat transfer enhancement in different type of roughness solar air heater. GCRE314615,(2015)
6. Arun k Behura B.N.Prasad and L.Prasad, Heat transfer friction factor and thermal performance of three side artificially roughness solar air heater.Solar Energy 130 pp-46-59 (2016)
7. Ravi Kumar L.Prasad and B.N.Prasad , Evaluation of thermal performance parameters and representation of efficiency curves in solar air heater.ISSN 2372-4153,VOL 3 (2016)
8. Vikash kumar Laljee Prasad, Thermal performance investigation of one and three sides concave dimple roughness solar air heater.Scopus Indexed ISSN: 0976-6340 pp-31-45 (2017)
9. Vikash kumar Laljee Prasad, Experimental analysis of heat transfer and friction for three side roughness solar air heater.Science des Matériaux-N 1-2/2017,75-107
10. Dhananjay Kumar Laljee Prasad, Heat transfer augmentation of various roughness geometry used in solar air heater.IJMET,VOL8,pp-491-508 (2017)
11. Dhananjay Kumar Laljee Prasad, Analysis on optimal thermo-hydraulic performance of solar air heater having multiple V-shapes wire rib roughness on absorber plate. International Energy Journal VOL18 pp-153-170.(2018)
12. Dhananjay Kumar Laljee Prasad, Thermo-hydraulic performance of solar air heater having multiple V-shape rib roughness on absorber plates. Carbon-Science and Technology,VOL1,pp-39-50,(2018)
13. Vikash kumar Laljee Prasad, Performance analysis of three sides concave dimple shape roughness solar air heater,Jsdeves,VOL6 pp 631-648,(2018)
14. Vikash kumar Laljee Prasad, Performance predication of three side hemispherical dimple roughness solar duct, Instrumentaion Mesure,Metrologie-N 2/2018,273-293.
15. Vikash kumar and Laljee Prasad, Thermal performance investigation of three side concave dimple roughness solar air heater, Solar Energy 188 pp-361-379 (2019).

Research Publications in Conference International:

S.NO	TITLE OF PAPER	YEAR
1	Weighting additive linear programming for design of cellular manufacturing system	2000
2	A fuzzy programming approach of cellular manufacturing	2001
4	Boiling of hydrocarbons on a PTFE coated surface	2004
4	An experimental investigation on heating pipe operation	2004

5	Enhancement of saturated boiling of isopropanol on PTFE coated heating surface	2006
6	Enhanced boiling of isopropanol on mild steel copper coated heating tube surface	2006
7	CAD based CMMS for manufacturing set up a programming perspective	2006
8	Nuclear boiling of saturated liquid from a copper coated surface	2008
9	Enhanced Boiling of liquid from a copper coated tube	2009

Research Publications in Conference national.

S.No	TITLE OF PAPER	YEAR
1	Cellular manufacturing system, An-Overview	2000
2	Preference modeling using fuzzy in cellular manufacturing system	2000
3	Need of cellular manufacturing in 21 st century & its implementation	2001
4	Cellular manufacturing system using the fuzzy mathematical programming	2001
5	On cellular manufacturing system	2001
6	Application of maxi-min operation in design of cellular manufacturing system	2001
7	Evaluation of conceptual design using fuzzy out ranking	2003