


## Detailed Bio Data

Name of the faculty	Dr. Arun Kumar Pujari		
Designation	Assistant Professor		
Department	Mechanical Engineering		
Date of Joining the Institute	4 <sup>th</sup> Sep 2018		
<b>University / Institute</b>	<b>UG</b>	<b>PG</b>	<b>Ph.D. (Title)</b>
	BPUT/GIET GUNUPUR	BPUT/GIET GUNUPUR	IIT MADRAS (Internal Heat Transfer Studies in a Gas Turbine Nozzle Guide Vane with Combined Impingement and Film Cooling)
Total Experience in years <b>(Post Ph.D)</b>	<b>Teaching</b>	<b>Research</b>	<b>Industry</b>
		0.5	2
Paper Published	<b>National</b>		<b>International</b>
	0		4
Conference Attended	<b>National</b>		<b>International</b>
	1		4
Details of Research work/Area	Gas turbine vane and blade heat transfer and cooling / Heat transfer and fluid flow analysis, Aerodynamic analysis, Computational fluid dynamics		
Book Published/IPRS/Patents	--		
Professional Membership	--		
Awards	Recipient of Silver Award at Rolls-Royce India Pvt. Ltd.		
Grants Fetched	Recipient of Institute Pre-Doctoral fellowship at IIT Madras		
Contact Information (Email)	<a href="mailto:arun.pujarimec@iipe.ac.in">arun.pujarimec@iipe.ac.in</a> akp327@gmail.com		

## **List of Publications:**

### **Journal Papers Published**

1. Pujari, Arun Kumar, B. V. S. S. Prasad, and Nekkanti Sitaram. "Effect of Blowing Ratio on the Internal Heat Transfer of a Cooled Nozzle Guide Vane in a Linear Cascade." *ASME Journal of Thermal Science and Engineering Applications* 8, no. 4 (2016): 041004.
2. Pujari, Arun Kumar, B. V. S. S. Prasad, and Nekkanti Sitaram. "Conjugate Heat Transfer Study at Interior Surface of NGV Leading Edge with Combined Shower Head and Impingement Cooling." *International Journal of Rotating Machinery* 2014 (2014).
3. Pujari A. K., B. V. S. S. Prasad and N. Sitaram (2015) Conjugate heat transfer analysis on the interior surface of nozzle guide vane with combined impingement and film cooling. *International journal of turbo and jet engine*, <https://doi.org/10.1515/tjj-2017-0026>
4. Pujari A. K., B. V. S. S. Prasad and N. Sitaram (2017), Effect of thermal conductivity on nozzle guide vane internal surface temperature distribution, *International journal of turbo and jet engine*, <https://doi.org/10.1515/tjj-2017-0061>

### **International conference**

5. Pujari A. K., B. V. S. S. Prasad and N. Sitaram , (2013) Conjugate Heat Transfer Study at Coolant Impingement Surface of NGV Leading Edge with Combined Shower Head and Impingement Cooling, 12th Asian International Conference on Fluid Machinery(AICFM-12), paper 004, Indonesia.
6. Pujari A. K., B. V. S. S. Prasad and N. Sitaram , (2014) Conjugate Heat Transfer Study in Internal Region of Nozzle Guide Vane in a Cascade, ACGT 2014, paper 0015, Seoul, Korea
7. Pujari A. K., B. V. S. S. Prasad and N. Sitaram , (2014) An internal heat transfer study in a cooled nozzle guide vane of a linear cascade, ASME - Gas Turbine India Conference, Paper id: GTIndia2014-8191, India Habitat, New Delhi.
8. Pujari A. K., B. V. S. S. Prasad and N. Sitaram , (2014) Heat transfer studies on the interior surfaces of cooled nozzle guide vane with combined impingement and film cooling holes in a linear cascade, ASME Turbo Expo, Paper id: GT2014-43972, Montreal Canada.

### **National conference**

9. Pujari A.K., (2010), A Review on intelligent manufacturing systems, Recent Advances in manufacturing Technologies (RAMT2010), GIET Gunpur

### **Conference paper submitted**

10. Nagabandi K. K, Pujari A.K., (2018) Combustor tile hot spot region cooling using locally varying thermal barrier coating , NAPC IIT KGP, Dec 15-17,2018,Paper id-157.