SATISH RAMESH PATIL

Assistant Professor, Mechanical Engineering

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EDUCATIONAL DETAILS

2014 : M.E in Mechanical Department/Heat Power Engineering Sinhgad College of Engineering, Pune University, 07/01/2014

2009 : B.E in Mechanical Department/ Mechanical from R C Patel Institute of Technology, North Maharashtra University, 09/07/2009

PROFESSIONAL EXPERIENCE

❖ **Assistant Professor, at Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule**, from 14-06-2018 to till date.

❖ **Assistant Professor, at MIT Academy of Engineering, Alandi, Pune** from 23-06-2014 to 12-06-2018.

❖ **Lecturer, at DCOER, Narhe, Pune** from dd-mm-yyyy to dd-mm-yyyy.

❖ **Lecturer, at Shivneri Polytechnic, Junnar, Pune.**from 01-09-2009 to 31-05-2010.

❖ **Research Projects:**

• "EXPERIMENTAL ANALYSIS OF TRANSCRITICAL CO2 AIR CONDITIONING SYSTEM"

Team: - One

CO_2 as a natural refrigerant has been attracting attention in the applications involving refrigeration, heat pump and air-conditioning systems compared with the conventional refrigerants like R-22, R134a and R-404A. In the present work the coefficient of performance of CO_2 air conditioning system is investigated at ambient conditions in sub-tropical region of Pune city. The experiment system is retrofitted for the CO_2 as refrigerant. The experiment is done by varying the ambient conditions across gas cooler and evaporator. The main system components are compressor, gas cooler and evaporator. The ambient conditions and flow around the gas cooler and evaporator is varied with help of heaters and blowers. The flow across gas cooler and evaporator is varied at 800-1250 m3 /hr and 150-450 m3 /hr. The system is tested by varying the dry bulb temperature and wet bulb temperature on gas cooler side and the testing is carried out for different conditions of environment.

❖ **Research Papers Presented / Published:**

Sr. No.	Details of Publication	National/International	Publisher, Vol, Indexing, impact factor	Author (s) / Editor (s)
1	TRANSCRITICAL SIMULATION OF CO2 AIR CONDITIONING SYSTEM	National Conference	Presented	Mr. Satish Patil
2	EXPERIMENTAL ANALYSIS OF TRANSCRITICAL CO2 AIR CONDITIONING SYSTEM	**International**	Paper published 2277-2685IJESR/May 2014/ Vol-4/Issue-5/206-224.	Mr. Satish Patil
3	THERMO ELECTERIC AIR CONDITIONING AN ALTERNATIVE TO CONVENTIONAL AIR CONDITIONING SYSTEM	**International**	Paper published 2019 JETIR ISSN-2349-5162 March 2019, Volume 6, Issue 3	

❖ **Workshop / Conferences / Seminars Attended**

Sr. No.	Title of Paper	Name of Conference in which published	Date of Publication
1	One week certification course on "Design and Implementation of Outcome Based Curriculum" by National Institute of Technical Teachers Training and Research Kolkata.	NITTR	
2	Indo Universal Collaboration for Engineering Education, Pre-certification workshop on Outcome Based Education (Phase I).		
3	Indo Universal Collaboration for Engineering Education, Course on Outcome Based Education (Phase II). Aggregate Percentage 64.		
4	One week certification course on "Assessment and Evaluation" by National Institute of Technical Teachers Training		
5	3 Days Workshop at IIT INDORE, on PV Technolgy		

❖ **Member of Professional Bodies:**

Sr. No.	Name of Institution/ Society	Grade of Membership	Date of Election	Whether Still a member
01	International Association of Engineers (Membership No.205877)	Life Member		Yes
02		Member		

❖ **EXTRA CO-CURRICULUM ACHIEVEMENT**
➢ Attended Industrial Training at "M/s ARM Welding Pvt Ltd" during winter vacation from 20st Oct 2016 to 6th Nov 2016.
➢ Attended one week training on "Material Engineering" at VIRAGO ENTERPRISES, PUNE from 12th June 2017 to 17th June 2017.

❖ **TECHNOLOGY PROFICIENCY**

PLATFORMS : Windows XP, 7, 10 .
PROGRAMMING LANGUAGES **: C language** .
OFFICE TOOLS : MS Office 2017
DESIGN SOFTWARE **: AutoCAD, Fusion 360, 3 d Printer Cura**
ANALYSIS SOFTWARE **: Ansys Fluent**

❖ **AREA OF INTEREST**

AREA OF INTEREST : **I C Engines, Solar Energy, Heat Transfer**