

Name : Dr. AR. Pappu
Qualification : Ph. D (Faculty of Mechanical Engineering)
Sex : Female
Date of Birth : 20.01.1978
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Objective

I want to improve myself so that I can be a part of the development of my country and the organization that I work with.

Career high lights

- Recognized supervisor under Anna University with **Supervisor ID: 4320015**
- I secured **centum in mathematics in my tenth and twelfth standards.**
- I have completed my **bachelor degree with first class & distinction** and **master degree with first class, distinction & a gold medal**
- I got **qualified in GATE 2011** with a percentile of 87.2%
- I have two and half years of working experience in industry, in design department
- I have five and half years of teaching experience (in handling classes for B.E. students) and 7 years of research experience in Anna University, CEG campus, Chennai (**worked under the guidance of Dr. R. Velraj, Ex-Vice Chancellor, Anna University**)
- I worked in DST funded research project for 3 years under the **guidance and supervision of Dr. R. Velraj, Ex-Vice Chancellor, Anna University.**
- I did my research works through simulation using DesignBuilder software
- I **work efficiently in software like AutoCAD, CATIA, Solid Works, DesignBuilder** (whole building simulation software) etc.
- I have working knowledge of **ANSYS and ANSYS - FLUENT**

- I have handled subjects such as Fluid Mechanics and Machinery, Strength of Materials, Engineering Mechanics, Engineering Metrology, Engineering Materials and Metallurgy, Value Engineering, Basic Civil and Mechanical Engineering, Energy Technology, Process Planning and Cost Estimation for undergraduate students and Material Handling System Design for post graduate students
- I have handled CAD lab, Fluid Mechanics and Machinery lab, Strength of Materials lab, Engineering Practices lab for undergraduate students

Experience (in Chronological order)

Organization : University College of Engineering – BIT Campus, Anna University, Trichy.

Job Title : Assistant Professor

Period of work : 01.12.2025 to Till date

Organization : PSG Institute of Technology and Applied Research, Neelambur, Coimbatore.

Job Title : Assistant Professor

Period of work : 04.09.2023 to 01.07.2025 (1 year and 10 months)

Organization : Anna University, CEG campus, Guindy, Chennai.

Job Title : Junior Research Fellow in DST funded project

Period of work : 30.01.2018 to 08.12.2020 (2 years and 10 months)

Organization : Jawahar Engineering College, Saligramam, Chennai.

Job Title : Assistant professor

Period of work : 01.07.2014 to 31.12.2014 (6 months)

Organization : Jawahar Engineering College, Saligramam, Chennai.

Job Title : Sr. Lab instructor

Period of work : 01.07.2013 to 30.06.2014 (1 year)

Organization : Sri Muthukumaran Institute of Technology, Mangadu, Chennai.

Job Title : Lecturer

Period of work : 15.07.2010 to 25.05.2012 (1 year and 10 months)

Company : Servall Engineering Works Ltd., Karamadai, Coimbatore

Job Title : Graduate Engineer Trainee in Design Department

Period of work : 20.04.2001 to 02.03.2002 (11 months)

Company : Sieger Spintech Equipments Pvt. Ltd., Peelamedu, Coimbatore

Job title : Design Engineer (Trainee)

Period of work : 01.09.2000 to 12.04.2001 (8 months)

Company : Lakshmi Synthetic Machinery Manufacturers Ltd., Thamaraikulam, Coimbatore

Job title : Engineer Apprentice in Design and Development department

Period of work : 09.07.1999 to 31.08.2000 (1 years and 2 months)

Academics

Doctorate

Completed **Ph.D (full time)** under the **Faculty of Mechanical Engineering**, at the Institute for Energy Studies, Anna University, CEG Campus, Chennai under the guidance and supervision of **Dr. R. Velraj, Ex-Vice Chancellor, Anna University.**

Thesis Title

Indoor thermal performance enhancement of commercial buildings through integration of PCM/insulation/ventilation strategies

Post Graduation

Completed **M.E with first class, distinction and a Gold medal in Anna University, CEG Campus, Guindy, Chennai**

Discipline : Product Design and Development

Percentage secured : 9.33 CGPA

Period of completion : 2014

Under Graduation

Completed **B.E with first class & distinction** in VLB Janakiammal College of Engineering and Technology (Bharathiar University), Coimbatore.

Discipline : Mechanical

Percentage secured : 80.2%

Period of completion : 1999

HSC

School : Presentation Convent Higher Secondary School, Coimbatore

Percentage secured : 89.58%

Period of completion : 1995

SSLC

School : Corporation Girls Higher Secondary School, Coimbatore.

Percentage secured : 89.2%

Period of completion : 1993

Software Skills:

- Working experience in Autocad
- Completed Pro E, Catia V 5, Ansys in CAD Centre, Chennai
- Completed short term course in Computational Fluid Dynamics (Ansys Fluent) at AU-FRG, Anna university
- Working Knowledge in Solid Works, DesignBuilder (whole building simulation software), CFD - ANSYS fluent software, and MS Office

List of publications

- A pathway towards sustainable development of small capacity horizontal axis wind turbines–Identification of influencing design parameters & their role on performance analysis, 2021, **Pappu Arumugam**, Velraj Ramalingam, Kiran Bhaganagar. Sustainable

Energy Technologies and Assessments, Vol. 44, Article no. 101019, **Impact factor 7.632 (Elsevier publications)**

- A pathway towards healthy and naturally ventilated indoor built environment through phase change material and insulation techniques for office buildings in India, 2021, **Pappu Arumugam**, Pandiyarajan Vellaichamy, Velraj Ramalingam, S Arun Prakash, V Antony Aroul Raj. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Vol. 236, Issue 3, PP. 555-574, **Impact factor 1.616 (Sage publications)**
- Thermal management analysis of PCM integration in building using a novel performance parameter-PCM effectiveness index, 2022, Arun Prakash Selvaraju, Arivazhagan Ranganathan, Antony Aroul Raj Vincent, **Pappu Arumugam**, Velraj Ramalingam. Thermal Science, Vol. 26, Issue 2 Part A, PP. 883-895, **Impact factor 1.971 (doiSerbia publications)**
- Effective PCM, insulation, natural and/or night ventilation techniques to enhance the thermal performance of buildings located in various climates–A review, 2022, **Pappu Arumugam**, Velraj Ramalingam, Pandiyarajan Vellaichamy. Energy and Buildings, Vol. 258, Article no. 111840, **Impact factor 7.201 (Elsevier publications)**
- Optimal positioning of phase change material and insulation through numerical investigations to reduce cooling loads in office buildings, 2022, **Pappu Arumugam**, Velraj Ramalingam, Pandiyarajan Vellaichamy. Journal of Energy Storage Vol. 52, Issue Part B, Article no. 104946, **Impact factor 8.907 (Elsevier publications)**
- Thermal comfort enhancement of office buildings located under warm and humid climate through phase change material and insulation coupled with natural ventilation, 2024, **Pappu Arumugam**, and Velraj Ramalingam. Sustainable Energy Technologies and Assessments, Vol. 63, Article no. 103657, **Impact factor 7.632 (Elsevier publications)**

Workshop/conference/seminars attended

- ❖ Attended four days intensive training program on “Energy Conservation Building Code (ECBC)” from 6th to 9th August 2019 at the Hall of Guines – 68, Anna University, Guindy, Chennai conducted by Bureau of Energy Efficiency in coordination with Tamilnadu state designated agency (Tamilnadu Electrical Inspectorate)
- ❖ Attended one day workshop on “Energy simulation in buildings” at Easwari Engineering College on 24th August 2019
- ❖ Attended one day planning meeting on “Bench marking quality parameters of research programs” on 15th October 2019 held at Hotel Ramada Plaza, Chennai
- ❖ Attended one day internal workshop on RUSA R & I project titled “Sustainable Energy Technologies” on 08.05.2019
- ❖ Attended AWSAR (Augmenting Writing Skills for Articulating Research) workshop on Popular science writing on 18th September 2018 at Anna University, Chennai organized by Department of Science and Technology (DST) and Vigyan Prasar (VP) in collaboration with Tamilnadu Science and Technology Center (TNSTC)
- ❖ Attended IGBC’s Advanced training program on Green Buildings on 26th& 27th July, 2018 at Chennai, organized by CII
- ❖ Attended international workshop on Small Wind Turbines from 30th November to 9th December, 2018 organized by NIWE, Chennai
- ❖ Attended international conference on Small Wind Turbines from 10th to 12th December 2018, organized by NIWE, Chennai
- ❖ Presented poster titled “Investigations on Small Capacity Wind Turbines” in the international conference on Small Wind Turbines” organized by NIWE, Chennai from 10th to 12th December 2018
- ❖ Attended 16th Green Power conference & exposition on renewable energy technologies on 25th& 26th July 2017 at ITC Grand Chola, Chennai
- ❖ Attended one day workshop on “Current trends in computational fluid dynamics” on 24th March 2017, conducted by Sri Ramakrishna Engineering College, sponsored by CSIR
- ❖ Attended 15thGreen Power 2016, an international conference cum exposition on renewable energy technologies on 30th June & 1st July 2016 at ITC Grand Chola, Chennai

- ❖ Participated in the workshop titled “International Educators Meet” on 24th to 27th January 2016 at Anna University
- ❖ Attended a seminar on “ThermoAnalytics Technology” on 4th February 2016 organized by Xitadel in partnership with Thermoanalytics, Inc.
- ❖ Attended regional training program on URKUND – An anti plagiarism detection tool, jointly organized by Anna University and INFLIBNET center in collaboration with URKUND, Sweden & eGalactic, Pune on 22nd September 2015 at TAG Auditorium, CEG, Anna University
- ❖ Attended 14th Green Power 2015, an international conference cum exposition on renewable energy technologies on 2nd July 2015 at ITC Grand Chola, Chennai
- ❖ Participated in one day workshop on “Solar Energy Systems – Opportunities, Challenges & Deployment” organized by Institute for Energy Studies, Anna University
- ❖ Underwent a short-term course in ANSYS Fluent at AU-FRG, Anna University, Chennai
- ❖ Acted as an Internal Jury for Smart India Hackathon at PSGITECH for two days (05.10.2023 to 06.10.2023)
- ❖ Attended ATAL advanced technical FDP titled “Digital Transformation for Smart Factory” on 30.10.2023 to 04.11.2023 organized by Siemens Center of Excellence, MIT campus, Anna University, Chennai in collaboration with Center for Faculty & Professional Development, Anna University, Chennai – 25
- ❖ 3 days online training program on Fusion 360° conducted on 04.12.2023 to 06.12.2023 organized by AUTOCAD
- ❖ One day workshop on “FreeCAD for Engineering Professionals” on 09.12.2023 organized by PSG TECH
- ❖ Participated in the FDP titled “Data analytics and cloud development with industry use cases”, organized by SAP labs India and PSGITECH (CSC department) at PSGITECH on 14.12.2023 to 19.12.2023
- ❖ Acted as Anna University Representative (AUR) during 02.01.2024 to 06.01.2024 for University Semester Examinations (Nov/Dec 2023-24)
- ❖ Completed a NPTEL course titled “Computational Fluid Dynamics for Incompressible Flow” Jan – Apr 2024, and obtained NPTEL certificate for the same
- ❖ Underwent micro teaching training on 28.03.2024 at PSGITECH

- ❖ Became a recognized supervisor under Anna University with **Supervisor ID: 4320015**
- ❖ Attended “Efficacious Paper Writing” on April 13th, 2024 organized by Center for Teaching Learning Practices, PSGITECH at PSGITECH
- ❖ Attended online MATLAB Grader workshop on May 11th, 2024 organized by MATH works (10.30 AM to 12 PM)
- ❖ Attended online FDP titled “Indian Knowledge Systems” conducted by UGC Malavia Mission during 24.06.2024 to 29.06.2024
- ❖ Participated in writing a Tamil Essay for Murugan Muthamizh Maanadu organized by Tamilnadu Hindu Religious and Charitable Endowments Department at Palani on 24th – 25th August 2024
- ❖ Attended online Faculty Training Programme on “Virtual Labs – An MoE Government of India Initiative” on 08.08.2024 conducted by staffs of NIT, Suratkal
- ❖ Attended FDP titled “AI Applications and Practical Insights”, organized by PSG CARE and PSGITECH at PSGITECH on 25.11.2024 to 29.11.2024
- ❖ Attended AICTE sponsored ATAL FDP titled “3D Printing and Design”, organized by College of Engineering, Trivandram on 09.12.2024 to 14.12.2024
- ❖ Attended Faculty Induction Programme – FIP 2025 organized by PSG CARE at PSGITECH campus from 20.01.2025 to 24.01.2025

I assure that all the above said details are true to my knowledge

(AR.Pappu)