

Resume of Mr. Vadlamudi Tara Chand

1. **Name in full** Dr. V. Tara Chand

2. **Father's Name** Shri. V. L. Gandhi

3. **Present Postal Address** Flat No: 201,
Surya Almond Gardens,
Vigneswara Nagar, Third Lane,
Guntur, Andhra Pradesh - 522034.



4. **Field of Specialization** Mechanical Engineering with **Thermal System Design Specialization**

5. **E-mail** tarachandvadlamudi@gmail.com

6. **Telephones** Mobile: 91-9492801534

7. **Nationality** Indian

8. **Date of Birth** 08-07-1985

9. **Educational Qualifications** :

Degree	Name of the University/Institute	Subjects Taken	Year of Passing
Ph.D.	Nagarjuna University, Andhra Pradesh	Mechanical with thesis title of "Exploration of Different Blade Cooling Strategies in the Perspective of Combined Cycle Power Augmentation".	2020
M. Tech. (Thermal System Design)	S. V. National Institute of Technology (SVNIT), Surat, Gujarat State, India	Thermal System Design Specialization	2010
B.Tech. (Mech. Engg.)	Nagarjuna University, Andhra Pradesh	Mechanical Engineering.	2008

10. Professional Experience:

Address of the Institution	Post Held	Duration	Nature of Experience
R.V.R & J.C. College of Engineering, Guntur, Andhra Pradesh	Associate Professor	Since July 2022 to till date	(i) Taught courses to the students of B.Tech.(Mech. Engg). Programs (ii) Administrative works
R.V.R & J.C. College of Engineering, Guntur, Andhra Pradesh	Assistant Professor	From June 2011- 2021	(i) Taught courses to the students of B.Tech.(Mech. Engg). programs (ii) Conducted Research at PG Level (iii) Administrative works
R.S.R Engineering College, Kavali, Nellore (Dt.), Andhra Pradesh	Assistant Professor	1 years (2010 to 2011)	(i) Taught courses to the students of B.Tech. (ii) Coordinated the industrial training programs of the undergraduate students

9. Summary of the Teaching in the College :

a. **Subjects Taught/ Teaching at present :**

1. Basic Thermodynamics
2. Applied Thermodynamics
3. Energy Resources Utilization
4. Automobile Engineering
5. Heat Transfer
6. Pumps and Prime Movers
7. Engineering Drawing

b. **Labs handled :**

- a. Fuels and I.C. Engines Lab
- b. Heat Transfer Lab
- c. Work shop Practice-I
- d. Simulation Lab

c. **Projects Guided :**

B.Tech Projects: 13 (completed), 1(ongoing)

- Guided final year students of Mechanical Engineering discipline in various projects involving Second Law Analysis on various thermal systems like Heat exchangers, Gas turbines, Steam turbines and thermal power plants.

10. List of publications

1. Gollamudi, S., Kommineni, R., **Vadlamudi, T.C.**, Katuru, B.P. (2023). Investigation of regenerative gas turbine performance under the influence of dynamic atmospheric conditions in India using energy and exergy analysis. International Journal of Heat and Technology, Vol. 41, No. 2, pp. 369-375. <https://doi.org/10.18280/ijht.410210> (**SCOPUS INDEXED**)
2. Shaik, M.H., Kolla, S., **Vadlamudi, T.C.**, Katuru, B.P., Kommineni, R. (2021). Thermodynamic analysis of eco-friendly refrigerant mixtures as an alternative to HFC-134a in household refrigerator. International Journal of Heat and Technology, Vol. 39, No. 5, pp. 1567-1574. <https://doi.org/10.18280/ijht.390519> (**SCOPUS INDEXED**)
3. **Tara Chand Vadlamudi**, Ravindra Kommineni & Bala Prasad Katuru (**2020**): Exploration of turbine blade cooling strategies for performance boosting and CO₂ emissions reduction of combined cycle with steam injection based gas turbine, International Journal of Ambient Energy, DOI: 10.1080/01430750.2020.1730956 (**SCOPUS INDEXED**)
4. **Tara Chand Vadlamudi**, Ravindra Kommineni & Bala Prasad Katuru (**2020**): Performance augmentation of combined cycle power plant under the control of differing open loop cooling techniques to the gas turbine blades, International Journal of Ambient Energy, DOI: 10.1080/01430750.2020.1712249 (**SCOPUS INDEXED**)
5. **Vadlamudi, Tara Chand**, Ravindra Kommineni, Bala Prasad Katuru, and N. Niranjan Kumar Injeti (**2018**): Influence of Different Steam Cooling Techniques for High Pressure Turbine Blades on the Performance of Gas Turbine, Iranian Journal of Energy and Environment; Previously Called: Iranica Journal of Energy & Environment 9 (3): 168–175. doi:10.5829/IJEE.2018.09.03.03
6. **Vadlamudi Tara Chand**, Kommineni Ravindra & Katuru Bala Prasad (**2018**): Exergy assessment of air film blade cooled combined power cycle plant,

International Journal of Ambient Energy, DOI:
10.1080/01430750.2018.1501740 **(SCOPUS INDEXED)**

7. K. Bala Prasad, **V. Tara Chand**, and V. Naga Bhushana Rao, **(2014)**: Experimental Investigation on Performance of Diesel Engine by Using Fish Oil and Mahua Oil, Journal of Sustainable Manufacturing and Renewable Energy, Volume 3, Number 1-2, Nova Science Publishers, Inc. ISSN: 2153-6821
8. Ravisankar B, **Tara Chand V (2013)**: Influence of nanoparticle volume fraction, particle size and temperature on thermal conductivity and viscosity of nanofluids – a review, Int. J Automot Mech Eng. 8:1316–38. **(SCOPUS INDEXED)**
9. **V. Tara Chand et al., (2013)**: Thermodynamic Analysis of Gas Turbine Power Plant, International Journal of Mechanical Engineering Research & Applications, Vol. 1 (04), P.P. 73-77.
10. **V. Tara Chand et al., (2013)**: Exergy Analysis of Gas Turbine Power Plant, International Journal of Engineering Trends and Technology (IJETT), Vol. 4 issue 9, P.P. 3991-3993.
11. **V. Tara Chand et al., (2013)**: First Law and Second Law Analysis of Gas Turbine Plant, International Journal of Mechanical Engineering Research, Vol. 3 No.4, P.P. 415-420.
12. **V. Tara Chand et al., (2011)**: Analysis of combined cycle Power plant, Proceedings of NCRAME 2011 (National Conference on Recent advances in Mechanical Engineering) organized by R.V.R & J. C College of Engineering , Guntur, P.P. 83-88, during 7th and 8th July 2011.
13. **ORCID ID:**
<https://orcid.org/0000-0003-3911-1923>
14. **Scopus Link:**
<https://www.scopus.com/authid/detail.uri?authorId=56088199100#top>
15. **Google scholar citations:**
<https://scholar.google.co.in/citations?user=9me5yUYAAAAJ&hl=en>
16. **Workshops / Seminars Conferences / Courses Attended:**

1. Attended ATAL Sponsored Faculty Development Programme on “AI Tools for Educators in line with OBE (AITOBE – 2023)” organized by Internal Quality Assurance Cell, Bapatla Engineering College, Bapatla, Andhra Pradesh, India organized from 20/11/2023 to 25/11/2023.
2. Participated in the One Week Online FDP on “Advancements in Thermal and Renewable Energy Technologies (ATRET-2022)” organized by the Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (Dt.), Andhra Pradesh, India organized from 04/07/2022 to 09/07/2022.
3. participated in the Five Day Online Faculty Development Program on "Thermal Science and Materials Engineering" Organized by the Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuramu from 07 - 11 November 2022.
4. Participated in the One Week Online FDP on “ Emerging Trends in Thermal and Renewable Energy Systems ” organized by the Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (Dt.), Andhra Pradesh, India from 28-06-2021 to 02-07-2021.
5. Completed the '**Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop**' attended the interaction session on **23 May 2020** and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work. This training was organised by the Teaching Learning Centre (ICT) at **IIT Bombay**, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India
6. Attended a one-week online Faculty Development Programme on “**MODELLING AND OPTIMIZATION TECHNIQUES FOR MATERIALS AND MANUFACTURING PROCESSES**” from **May 18-22, 2020** conducted by Lakireddy Bali Reddy College of Engineering, Mylavaram.
7. Attended a two weeks AICTE Sponsored FDP on “**Emerging Technologies and Challenges in Mechanical Engineering**” Organized by R.V.R & J.C. College of Engineering during **21st October to 2nd November, 2019**.
8. Attended a one week AICTE - **ISTE** Sponsored Induction/Refresher Programme on “**Research Methodology, Design and Analysis of**

Experiments” organized by R.V.R.&J.C. College of Engineering during **12th to 17th November, 2018.**

9. Completed an AICTE approved Faculty Development Programme (FDP101x) on **“Foundation Program in ICT for Education”** conducted by **Indian Institute of Technology Bombay** from **September 13, 2018 to October 18, 2018.**
10. completed an AICTE approved Faculty Development Programme (FDP201x) on **“Pedagogy for Online and Blended Teaching-Learning Process”** conducted by **Indian Institute of Technology Bombay** from **October 30, 2018 to December 13, 2018.**
11. Attended a one day national workshop on **“Green Nanomaterials”** organized by R.V.R & J.C College of Engineering on **25th February, 2017.**
12. Attended a two day national seminar on **“March to Make in India through Engineering Advancements”** organized by R.V.R & J.C College of Engineering during **September 29-30, 2016.**
13. Attended a one week AICTE Sponsored Short Term Course on **“Advanced IC Engine Technologies”** Organized by **I.I.T Madras** during **November 21-26, 2016.**
14. Attended a Two Day National Seminar on **“Recent Advances in IC Engines”** Organized by V.R. Siddhartha Eng. College on **31st March- 1st April, 2016.**
15. Attended 2nd Continuing Education Program on **“Computational Fluid Dynamics: Theory and Practice”** under TEQIP-II Organized by Dept. of Mech. Eng., **S.V.N.I.T, Surat** during **15th to 19th June 2015.**
16. Attended a Two Day National Workshop on **“Advances in Sustainable Energy Studies”** Organized by Department of Mechanical Engineering, N.I.T Warangal during **1-2, November 2014.**
17. Attended a one week AICTE Sponsored Short-Term Training Programme on **“Advanced Engine Technologies for Combustion & Emission Control”** Organized by **I.I.T Kanpur** during **May 1-5, 2013.**
18. Attended a Two Day U.G.C Sponsored National Seminar on **“Solar Energy Harvesting Through Photovoltaic Cells and Storage”** organized by R.V.R.&J.C. College of Engineering during **21st and 22nd June, 2013.**

19. Attended a Two Day D.S.T Sponsored National Seminar on **“Futuristic Trends of Nano Composites and Their Fabrication”** organized by R.V.R.&J.C. College of Engineering during **6th and 7th September, 2013.**
20. Attended a Two Day AICTE Sponsored National Seminar on **“Nano Technology – A Fuel for Chemical Industry”** organized by R.V.R.&J.C. College of Engineering during **20th and 21st September, 2013.**
21. Attended a one week AICTE Sponsored Short Term Training Programme on **“Theoretical and Computational Fluid Dynamics”** Organized by **I.I.T Madras** during **March 10-14, 2012.**
22. Attended a One Day Faculty Orientation Program on **“Computational Fluid Dynamics – Theory and Applications”** Organized by Department of Mechanical Eng., V.R. Siddhartha Eng. College on **31st March, 2012.**
23. Attended a 2-week ISTE Workshop on **“Computational Fluid Dynamics”** Conducted by **I.I.T Bombay** during **June 12-22, 2012.**
24. Attended a Two Day **ISTE Programme** on **“Induction Training for Young Faculty”** organized by R.V.R.&J.C. College of Engineering during **6th and 7th September, 2011.**

17. Membership of Professional Societies:

- Member in International Association of Engineers (IAENG)

18. Expert Lectures Delivered:

- Guest lecture delivered on **“Advancements in Thermal Power Plants”** organized by **Krishna Godavari Power Utilities Limited 60 MW Thermal power plant**, Wadapally during 29-30, January 2013.

19. Administrative Duties in the College:

- 1) In-charge of II/IV, III/IV, IV/IV B.Tech Classes
- 2) Acting as an Associate NCC Officer for Boys Wing