

Dr.B.ANBARASAN M.E., Ph.D.

Personal Details:

Date of Birth: **06.09.1989**
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Career Objective

To be a part of the teaching community and strive for excellence in the research and teaching profession with dedication, focus proactive approach, positive attitude and passion and create a spark in the student's community which would create a positive change in the world.

Educational Qualification

Jul' 2017 – Feb' 2023 **ANNA UNIVERSITY, CHENNAI**

Doctor of Philosophy in Mechanical Engineering (Part-time Mode)

Web: <http://ceg.annauniv.edu>

Project Title: EXPERIMENTAL INVESTIGATION ON VARIABLE COMPRESSION RATIO ENGINE USING NANOPARTICLES, KAPOK OIL METHYL ESTER AND DIESEL BLEND WITH EGR

Jul' 2011 – Jun' 2013 **COLLEGE OF ENGINEERING GUINDY**

Master of Engineering in Internal Combustion Engineering

Web: <http://ceg.annauniv.edu>

Project Title: PERFORMANCE AND EMISSION CHARACTERISTICS OF COUNTRY BORAGE METHYL ESTER DIESEL BLEND IN A C.I ENGINE

Jul' 2007 – Jun' 2011 **M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR.**

Bachelor of Mechanical Engineering

Web: <https://www.mkce.ac.in/>

Project Title: STONE COLLECTING MACHINE

Work Experience

Teaching

- **Assistant Professor** – Dhanalakshmi Srinivasan College of Engineering and Technology at Mamallapuram, Chennai, Tamil Nadu, India Department of Mechanical Engineering (May 2013 – April' 2015).

- **Assistant Professor** – PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, India Department of Mechanical Engineering (Aug '2016-till Now)

Additional Roles and Responsibilities:

- **Department Research coordinator** – PSNA College of Engineering and Technology, Dindigul (Jun '2023 –till now)
- **Admission coordinator** - PSNA College of Engineering and Technology, Dindigul (March '2020 –till now)

Achievements

Publications in International Journals:

1. Rajan CS, **Baluchamy A**, Venkatesh J, Balamurugan S, Karthick R. (2024) Effects of Water-Based Nano-Fluid Emulsions on Pollutant Emissions Using an Internet-of-Things-Based Emission Monitoring System. *Engineering Proceedings*. 61(1):7.
2. **Baluchamy, A.**, Karthick, R., Chandramurthy, S. R. and Rajkumar, T. (2023) “Effect on higher compression ratio on unmodified CI engine powered by biodiesel blend”, *Multidisciplinary Science Journal*, 6(5), p. 2024071.
3. **Baluchamy, A.**, Karuppusamy, M. and Senthamaraiannan, B., 2023. Investigation on effects of cobalt-chromite nanoparticle blends in compression-ignition engine. *Materials Research Express*, 10(8), p.085502.
4. Rajkumar, T., Dinesh, S., **Anbarasan, B.** and Balamurugan, S., 2023. Effect of welding process parameters on surface topography and mechanical properties of friction-stir-welded AA2024/AA2099 alloys. *Materials Research Express*, 10(2), p.026507.
5. Balamurugan, S., Jayakumar, K., **Anbarasan, B.** and Rajesh, M., 2023. Effect of tool pin shapes on microstructure and mechanical behaviour of friction stir welding of dissimilar aluminium alloys. *Materials Today: Proceedings*, 72, pp.2181-2185.
6. Sivalingam, S., **Baluchamy, A.**, Asokan, V. and Vaidhyanathan, Y., 2022. An Experimental Assessment of Brake Thermal Efficiency and Exhaust Emissions of a Non-road Genset Diesel Engine Fueled with Aloevera Emulsified Diesel Fuel. In *Recent Advances in Materials and Modern Manufacturing: Select Proceedings of ICAMMM 2021* (pp. 205-223). Singapore: Springer Nature Singapore.
7. **Baluchamy, A.** and Karuppusamy, M., 2021. The combined effects of cobalt chromite nanoparticles and variable injection timing of preheated biodiesel and diesel on performance, combustion and emission characteristics of CI engine. *Heat and Mass Transfer*, 57, pp.1565-1582.
8. Pooja, S., **Anbarasan, B.**, Ponnusami, V. and Arumugam, A., 2021. Efficient production and optimization of biodiesel from kapok (Ceiba pentandra) oil by lipase transesterification process: Addressing positive environmental impact. *Renewable Energy*, 165, pp.619-631.

9. Rajan, C.S., Gopinath, G., Devaraju, A. and **Anbarasan, B.**, 2021. Non-linear analysis of double skinned composite hollow columns using geopolymer concrete. *Materials Today: Proceedings*, 39, pp.662-668.
10. Sivalingam, S., Palanisamy, P. and **Baluchamy, A.**, 2021. Experimental investigation on Jatropa oil Methyl Ester fuelled CI engine using high EGR. *Materials Today: Proceedings*, 39, pp.274-278.
11. **Anbarasan, B.** Venkatesh, J. Jamunarani 2019 Experimental research on performance and emission characteristics of country borage methyl ester - Diesel blend in a compression ignition engine *International Journal of Recent Technology* 8(2) pp.1835–1839
12. Karthik, S., Muralidharan, K. and **Anbarasan, B.**, 2018. material selection for fin based on Thermal analysis using Ansys and ANN. *International Journal of Mechanical Engineering and Technology (IJMET)*, 9(11), pp.560-567.

Publications in International Conferences:

1. **Anbarasan, B.** Venkatesh, J. Jamunarani 2019 Experimental Research on Performance and Emission Characteristics of Country Borage Methyl Ester - Diesel Blend in a Compression Ignition Engine" organized by International conference on multi -disciplinary research studies and education
2. **Anbarasan, B** & Murugaboopathi S 2024 Analysis of energy, exergy, and emissions in a diesel engine powered by cotton silk seed oil biodiesel with varying injection timings” organized by SRMICET 5th international conference on advances in mechanical engineering (icame 2024)
3. Murugaboopathi S & **Anbarasan B** “Energy and exergy analysis of FPC collectors using different nanofluids” organized by SRMICET 5th international conference on advances in mechanical engineering (icame 2024)
4. **Anbarasan B** 2024 “Effect of methylester and diesel blends on engine evaluation in real world drive conditions” organized by ADITYA Engineering college

Research and Development

Act as a reviewer in SCI journals- More than 20 articles reviewed in reputed journals and Editorial member in one journal
Trusted reviewer award from IOP Publishers

Areas of Interest

- INTERNAL COMBUSTION ENGINE
- HEAT TRANSFER
- ALTERNATIVE FUELS
- FLUID MECHANICS

Technical Skills

Teaching and Learning

- Teaching various Mechanical Engineering Related Subjects like

Engineering Graphics, Engineering Mechanics, Fluid Mechanics, IC Engines, Heat and Mass Transfer, Lean Manufacturing.

- Completed a short term course on “**ENGINE RESEARCH**” at NIT Trichy.
- Completed the professional short term course in “**CFD USING ANSYS FLUENT**” at AU-FRG Institute for **CAD-CAM** Anna university
- Participated in faculty development program in “**FACULTY FOCUS 2017**” at PSNA College of engineering and technology conducted by NITTR Chennai.
- Successfully completed the NITTTR 8 Modules conducted by AICTE
- Minor and Major Project Supervision for third year and final year students
- I have attended the more than 10 workshop, Faculty Development Program and Seminar related the Mechanical Engineering
- Our team has organized the STTP “Future perspective and challenges of clean energy utilization in india” Sponsored by AICTE
- I have completed short term course conducted by IIT Madras in the topic of “Drops, Spray and Atomization” on JAN 2024.
- I have completed the GAIN Course conducted by IIT Kanpur in the topic of fuel /engine interaction in practical internal combustion engines for future emission compliances and efficiency improvements” on NOV 2023.

References

- **Dr. K.Muralidharan**, Professor, Dept. of Mechanical Engineering, PSNA College of Engineering and Technology, Tamil Nadu, India. Email: muralidha@gmail.com Mobile: +91 9443775518
- **Dr. K.N. Sheeba**, Associate Professor, Department of Chemical Engineering, National Institute of Technology, Trichy, Tamil Nadu, India Email: sheeba@nitt.edu Mobile: +91 9952842613.
- **Dr. A.Arumugam, Associate Professor**, Department of Biotechnology, SASTRA University, Thanjavur, Tamil Nadu, India. E-mail: aruchemxl@scbt.sastra.edu, Mobile:+91 9500235554.

Declaration:

I hereby declare that the information given above by me is true and complete to the best of my knowledge.

Dr.B.ANBARASAN

Place: Tamilnadu, India

Date: 13.04.2024