

# Dr. Vijay V S

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## OBJECTIVE

To make an achievement in the field of teaching and research thus contributing to the field of engineering education and to the overall growth of the organization where I am working

## ACADEMIC RECORD

Qualification	University/ Board	Institution	Percentage/ Aggregate	Year of Passing
Ph.D	VTU	St. Joseph Engineering College, Mangalore	Thesis: “Some studies related to improving performance diesel engine using Pre-heated fuel”	2023
M.Sc (Engg) by Research	VTU	St. Joseph Engineering College, Mangalore	Thesis: “A modified approach to the design of Two-Stroke SI Engine”	2015
B.E	V.T.U	KVGCE, Sullia	78	2005

## PROFESSIONAL EXPERIENCE

Total teaching experience: 19 years

Industrial experience: 1 year

Year	Position	Organization
July 2015 to till date	Assistant professor	St. Joseph Engineering College, Mangalore
Feb 2014 to June 2014	Assistant professor	Vivekananda College of Engineering and Technology, Puttur
September 2011 to February 2014	Senior lecturer	Vivekananda College of Engineering and Technology, Puttur
October 2008 to August 2011	Lecturer	Vivekananda College of Engineering and Technology, Puttur
August 2007 to September 2008	Lecturer	Canara Engineering college, Mangalore
July 2006 to August 2007	Lecturer	Vivekananda Polytechnic, Puttur

July 2006 to June 2006	Quality Control Engineer	Armor Plast Ltd, Bangalore
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## PUBLICATIONS-12 /PATENT- 1

- Shashidhara, V.V., Prabhu, R., Nayak, V., Gonsalves, J. and Muruges, V. (2025), "Optimizing diesel engine performance and emissions with heated high-pressure fuel lines: an experimental study", World Journal of Engineering, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/WJE-08-2024-0459>
- Shashidhara VV, Prabhu R, Chippar P. Transforming ideas into products: Project based learning in prototyping, fabrication, and testing course for first year engineering students. International Journal of Mechanical Engineering Education. 2024;0(0). doi:10.1177/03064190241307026
- Poojari, M., Jathanna, H.M., Vijay, V.S. et al. Analysis of Lightweight Braking Material System for an ATV. J. Inst. Eng. India Ser. D (2024). <https://doi.org/10.1007/s40033-024-00698-5>
- Patent awarded for “**Efficient Two stroke Engine**” on 22/10/2022 with no 411205 , for application number 3152/CHE/2014 by Patent office, Govt of India
- V S Vijay and Joseph Gonsalvis, “*Performance study of using preheated biodiesel in a diesel engine*” published in the JOURNAL OF MECHANICAL ENGINEERING AND SCIENCES (JMES) with Vol. No 16, Issue No.2, page no. 8820 – 8828, June 2022
- V S Vijay and Joseph Gonsalvis, *Effect of Fuel Intake Temperature on Performance and Emission of Diesel Engine*, IOP Conf. Ser.: Mater. Sci. Eng. 1065 (2021) 012024, IOP Publishing doi:10.1088/1757-899X/1065/1/012024
- Vijay Vailaya Shashidhar, *Effect of using fins in cooking vessel to improve heat transfer rate*, AIP Conference Proceedings 2236, 030008 (2020); <https://doi.org/10.1063/5.0006788>.
- Dr Binu K.G., Vijay V S, Anusha M M, Anoop C V, Dr Shreeranga Bhat, Dr Rio D’Souza, “*Influence of Epistemic Curiosity on the Study Approaches of First Year Engineering Students*”, January 2020, Procedia Computer Science 172:443-451
- H Shyam Prasad, V S Vijay and Joseph Gonsalvis, "Effect of direct water injection at different crank angles on diesel engine emission and performance", IOP Conf. Series: Materials Science and Engineering 376 (2018) 012039 doi:10.1088/1757-899X/376/1/012039.
- Vijay V S et al., “*Design and Fabrication of Heat Exchanger for Waste Heat Recovery from Exhaust Gas of Diesel Engine*”, Journal of Mechanical Engineering and Automation 2016, Volume 6, page 131-137, Published online at <http://journal.sapub.org/jmea> , Scientific & Academic Publishing.
- Shyamprasad, Dr.Joseph Gonsalvis, Vijay V S, *Effect of Introduction of Water into Combustion Chamber of Diesel Engines – A Review*, Energy and Power 2015, 5(1A): 28-33, DOI: 10.5923/c.ep.2015.01.06

- Vijay V S, Bharath Kumar, Sharath, Varadaraj, Sreevas, *Study and Analysis of finned vessel to improve heat transfer effectiveness*, VCET Journal of Science and Technology, Vol.1, Page no. 86 – 89, ISBN: 978-81-930416-1-1, 2015
- Vijay V S, Dr. Joseph Gonsalvis, Shyamprasad H, "***Recent Technological advances in performance Improvement of Two-Stroke SI engine***" in the Proceedings of International Conference on Emerging Trends in Engineering- ICETE-2014, Vol II, page no. 189 - 194, ISBN:978-93-5196-379-0, Excellent Publication – 2014

## **SUBJECTS HANDLED**

Heat and Mass Transfer, Turbo machine, Fluid mechanics, Basic thermodynamics, Applied thermodynamics, Automotive engineering, IC Engines, Energy Engineering and Engineering Economy

## **LABORATORIES HANDLED**

Energy Engineering lab, Heat and Mass Transfer Lab, Fluid mechanics and Machinery Lab, Computer Aided Machine Drawing, Computer Aided Engineering Drawing, Computer Aided Modeling and Analysis Lab, Computational Tools for Engineers and Workshop Practice

## **SOFTWARE SKILLS**

Basics of MATLAB and SIMULINK, ANSYS-FLUENT, Solidworks, Solidedge, MS-WORD, MS-EXCEL, MS-Powerpoint

## **Roles/Responsibility**

NBA/NAAC Coordinator, AICTE IDEA Lab Co-coordinator, UHV/SIP Coordinator, SAEINDIA SJEC collegiate club faculty advisor

IIEECP Certified Engineering Educator



**VIJAY V S**