

RESUME

Personal Details

Name	Vijay Sahebrao Patil
Date of Birth	14 th October 1978
Permanent Address	1, Radhakunj Apt., Vrindavan colony, General Vaidyanagar, Dwarka, Nashik-11
Mailing Address	Mechanical Engineering Department, K. K. Wagh Institute of Engineering Education and Research, Hirabai Haridas Vidyanagari, Amrutdham, Panchavati, Nashik-03
Email	v.s.patil@kkwagh.edu.in , mailvijaypatil@gmail.com
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Educational Qualifications

Degree / Certificate	Board/University	Institution	Year	Aggregate Score (CPI/%age)
Ph. D.	Indian Institute of Technology, Bombay	Indian Institute of Technology, Bombay	July 2019	8.64/10
M. Tech (Energy Systems Engineering)	Indian Institute of Technology, Bombay	Indian Institute of Technology, Bombay	July 2006	8.93/10
B. E. (Mechanical Engineering)	Pune University	S. R. E. S., College of Engineering, Kopargaon	June 2000	61.70
H.S.C.	Pune Board	G. P.S., Gautamnagar, Kolpewadi	March 1996	79.00
S.S.C.	Pune Board	G. P.S., Gautamnagar, Kolpewadi	March 1994	79.57

Experience

**K. K. Wagh I. E. E. & R.,
Amrutdham, Panchavati,
Nashik**

Working as Associate professor in Department of Mechanical Engineering since July 2013 (09 Years)

Worked as Assistant professor in Department of Mechanical Engineering since July 2008 to June 2013 (05 Years)

Worked as lecturer in Department of Mechanical Engineering from August 2001 to June 2008 (07 Years)

PhD Work

- Experimental investigation of heat transfer characteristics of circular jets impinging onto a concave surface with and without coolant ejection (Sponsored by GTRE, Bangalore)

MTech Work

- Straight Vegetable oils (SVO) in C. I. Engines (Sponsored by Cummins India Ltd., Pune)

BTech Work

- Modelling and Tool Path Generation using MasterCam

Conferences and Publications

- M. N. Shelar, V. S. Patil, '*Net Energy Analysis of Sugarcane based Ethanol Production*', Cleaner Energy systems, 4(2023), 100059
- M. N. Shelar, V. S. Patil, '*Insights of field investigations into the selection of pump and its energy use*' International Conference on Science, Technology and Sustainability (ICSTS – 2022), November 2022, organised by MMADTC, Malegaon
- V. S. Patil, M. N. Shelar, A. Ganesh, "*Experimental Investigation on Optimization of Injection Temperature of Karanj Oil (Pongamia Pinnata) as a Substitute for Diesel in C. I. Engines*", ICAER 2019, December 2019 at IIT Bombay
- V. S. Patil, R. P. Vedula, "*Local heat transfer for jet impingement onto a concave surface including injection nozzle length to diameter and curvature ratio effects*", Experimental Thermal and Fluid science, 92(2018), 375-389
- V. S. Patil, R. P. Vedula, "*Heat transfer with single and two rows of axisymmetric jets impinging on concave surface*", International Heat and Mass transfer conference, ISRO, Trivandrum, 17th to 20th December 2015

- V. S. Patil, M. N. Shelar, A. Ganesh, “*Effect of additives on C.I. engine performance and emissions: An experimental investigation*”, International Journal of Earth sciences and Engineering, 2012, 90-93
- M. N. Shelar, V. S. Patil, “*Investigations into the C.I. Engine performance and emissions with kerosene adulteration*”, International Journal of Earth sciences and Engineering, 2012, 86-89

Awards and Recognitions

- Dr. V. M. K. Shastri best paper award for paper titled “*Heat transfer with single and two rows of axisymmetric jets impinging on concave surface*” at international ISHMT-ASTFE Heat and Mass transfer conference held at ISRO, Trivandrum between 17th and 20th December 2015
- Resource person for workshop on “*Concepts and practices in Energy Efficiency Enhancement*” organised for industry and academic personnel conducted on 7th November 2020 and September 2021

Workshops and Trainings attended

- Completed online training on ‘**MATLAB Onramp**’ and ‘**MATLAB Fundamentals**’ course by MathWorks training services in December 2022
- Attended Online advanced FDP ‘**Basics of Electric Vehicles**’ from 25/02/2022 to 01/03/2022 organised by Thapar Institute of Engineering & Technology sponsored by AICTE Training And Learning (ATAL) Academy
- Attended online Syllabus Implementation Workshop of ‘**Heat and Mass Transfer**’ course on 27th July 2021 organised by Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune
- Attended FDP on ‘**Innovative Teaching Learning Methods**’ organised by Mechanical Engineering Department, KBT college of Engineering, Nashik between 10th and 12th May 2021
- AICTE-ISTE sponsored Orientation course on ‘**Scope of IOT and its applications in Automotive and Agricultural Industry**’ organised by Government College of Engineering & Research, Avasari Khurd during 22nd to 28th February 2021
- Participated in online workshop on ‘**Design for Experience: Applying design thinking to learning organization**’ between 17th to 21st July 2020 organised by K K Wagh Institute of Engineering Education and Research, Nashik

- NPTEL course on ‘**NBA Accreditation and Teaching – Learning in Engineering (NATE)**’ conducted by Ministry of HRD, Govt. of India between January to April 2020
- NPTEL course on ‘**Steam Power Engineering**’ conducted by Ministry of HRD, Govt. of India between August to October 2019
- Faculty development programme on ‘**Leadership skills and Teaching using Dramatics**’ by Nalanda Business Associates on 9th and 10th February 2018
- CEP workshop on ‘**Heat Transfer**’ organised at IIT Bombay from 12th September to 16th September 2011
- Workshop on ‘**Thermodynamics in Mechanical Engineering**’ organised at K. K. Wagh Engineering Institute, Nashik in collaboration with IIT Bombay from 15th to 24th June 2011
- STTP on ‘**High Impact Teaching Skills (Mission 10X)**’ organised by Wipro at NDMVPs College of Engineering, Nashik during 18th to 22nd May 2009
- STTP on ‘**Enhancing Skills of Engineering faculty**’ organised by Nirma institute of technology, Ahmedabad during 28th June to 10th July, 2004
- STTP on “**Alternative Fuels and Emissions**” Organised by IIT Kanpur during 18th to 30th December 2003

Workshops and Trainings organised

- Organised workshop on ‘**Heat Transfer**’ at K. K. Wagh Engineering Institute, Nashik in collaboration with IIT Bombay from 29th November to 10th December 2011
- Organised workshop on “**Recent developments in power sector: Technology and policy**” for staff and students at K. K. Wagh Engineering Institute, Nashik on 14th and 15th February 2018
- Organised workshop on “**Advanced Mobility**” for Students at K. K. Wagh Engineering Institute, Nashik on February 2018, March 2018 and July 2021
- Organised Audit course on “**Finance for Engineers**” for students at K. K. Wagh engineering institute under IQAC initiative
- Organised workshop on “**Advances in Heat Transfer**” for Students at K. K. Wagh Engineering Institute, Nashik in September 2018/ September 2019/ September 2020/ September 2021

Academics

- Courses taught: Internal combustion engines, Heat transfer, Thermodynamics, Energy Audit and Management
- In-house project guidance to final year students in the field of I. C. Engines, Heat transfer and Energy conservation
- Working as department Academic coordinator since academic year 2017-18
- Faculty advisor and coordinator of Society of Automotive engineers (SAE) collegiate club 2007 and 2017
- Working as IQAC member since November 2016

Memberships of Scientific and professional Societies

- Life Member of Indian Society for Heat and Mass Transfer (**ISHMT**)
- Life Member of Indian Society of Technical Education (**ISTE**)
- Member of Indian Society of Mechanical Engineers(**ISME**)
- Member of Institution of Engineering and Technology (**IET**)
- Former Member of Society of Automotive Engineers (**SAE**)

I hereby declare that all the information given above is true to the best of my knowledge and belief.

Place: Nashik

Dr. Vijay Sahebrao Patil