

Curriculum Vitae

Name

: **Dr. Kale Nishikant Wasudeorao**

Designation

Adjuct Professor in Mechanical Engineering
Govt. college of Engineering, Amravati
Former Professor in Mechanical Engineering.
Prof Ram Meghe Institute of technology &
Research, Badnera- Amravati, 444701



Contact Address:

‘Amba Sadan’, Near school no 19,
Rukmini nagar, Amravati, 444606

E mail ID

nwkale@gmail.com,

Date of Birth:

1/4/1962

Qualification

Sr. no	Degree	Institute/ University	Year of passing
1	Ph.D (Mechanical Engg.)	VNIT Nagpur	2013
2	ME (Thermal Power),	Govt. College of Engineering, Amravati/SGBAU	1992
3	BE (Mechanical)	Gogate Institute of Technology, Belgaum, Dharwad University, Karnataka	1984

Total Experience

: **Total - 39 Years; Teaching Experience- 38 Years**
Industrial – 1 Year

Details of Academic and Administrative Responsibilities Handled:

Sr. No	Academic and administrative Position held	Place	From	To
9	Dean Entrepreneurship and Professor in Mechanical engineering	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	May 2017	Till Yr 2022
8	Principal	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	November 2015	May 2017

7	Head of the department, Mechanical Engineering	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	March 2014	August 2015
6	Dean, Training and placement	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	July 2008	November 2015
5	Dean, Planning and development	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	February 2003	July 2005
4	Head of the department Mechanical Engineering	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	July 2002	January 2003
3	Professor in Mechanical engineering	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	October 2000	March 2022
2	Assistant Professor in mechanical engineering	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	October 1992	October 2000
1	Lecturer in Production Engineering Department	Prof. Ram Meghe Instt of Technology and Research, Amravati (CoE, Badnera- Amravati)	June 1985	October 1992

Field of Research: Bio fuels, Renewable Energy, IC Engines , Alternative energy sources

Details of Doctoral Research Work :

Institute: VNIT, Nagpur

Topic: Energy intervention planning for rural areas using locally available biofuels.

Supervisor: Dr. N.V. Deshpande

Brief Description: Around 40 % of Indian population has little or no access to electrical energy. There are thousands of villages in India where conventional, i.e. grid connected electricity is not yet reached. On the other hand there are various energy sources available locally which are yet untapped. Keeping this in mind, the work is aimed at devising a strategy for suggesting energy interventions using locally available biofuels; for remote villages where grid electricity is unavailable. Extensive experimentation was carried out on naturally available oilseeds like Madhuca indica, Pongamia pinnata, Azadirachta Indica and Schleicheria oleosa. Experimental results and other data was used for designing an energy planning software tool, “VNIT Energysoft”

Field of Specialization :

- Thermal Engineering,
- I C Engines,
- Renewable Energy
- Energy Studies,
- Biofuels
- Environment,

Important Research Projects in the field of Sustainable Energy Executed:

Handled important renewable energy projects related to biofuels, biogas, solar energy, energy planning using locally available biofuels; like

a) **Solar powered mobile digital seva kendra (Setu) for remote villages in Melghat**, Funded by Govt of Maharashtra, under innovative projects. Duration 2018-2021

b) **Energy planning and implementation for remote village Ghatpendhari in Pench tiger reserve; using solar energy**, Funded by SELCO India and CAT, Mumbai. Duration 2017- 2020

c) **Village electrification with solar energy interventions for a remote village, Raksha, Melghat**. Project funded by Mesonic Lodge (India), Nagpur Chapter. Duration: 2012-2014

d) **Electrification of remote village Khamda, Melghat; using locally available biofuels**. Duration 2009- 2012, Funded by Life force, UK

Research papers in National & International conferences and Journals -

- **Total 49 research papers** in international journals and conferences at national and international level. (Details attached)

Papers in International journals	22
Papers in International conferences	12
Papers in national journals	01
Papers in national conferences	14

- **Areas of research publication:** Biofuels, Energy Planning, PCM material, Parabolic dish solar collectors, wind energy, heat transfer enhancement, applications of nano-additives etc.
- **Number of Ph.D Candidate Guided :** Awarded 2, in process 1 total 3
- **Number of ME Students guided:** Total 13
- **List of Publication attached separately.**
- **Citations – 82, H index - 5, I10 index - 4**
- **Google Scholar Profile:**
https://scholar.google.co.in/citations?view_op=list_works&hl=en&hl=en&user=57fBiwkAAAAJ

Association with Professional bodies :

- Fellow of Institution of Engineers,
- Member of Combustion Institute (I)
- Member of ISTE

Academic Contribution:

- Former Member BoS, Mechanical, Sant Gadge Baba Amravati University
- Former Member BoS, Mechanical, Rashtrasant Tukdoji Maharaj Nagpur University
- Member BoS, Mechanical, Govt. College of Engineering, Amravati
- Member BoS, Mechanical, Govt. Polytechnic, Amravati

Contribution in the field of technical education and pedagogy

- i) Worked as the member of National executive council of Indian Society for Technical Education (ISTE) New Delhi consecutively for three terms, for the total period of nine years, from year 2001 to 2010
- ii) Regularly organizing Teachers training programs on issues related with technical education
- iii) Regular resource person at human resource development center (academic staff college) of a) Sant Gadge Baba Amravati University and b) RTM Nagpur University for delivering lectures on teaching skill enhancement, energy conservation, renewable energy, climate change and other environmental issues since 1998.
- iv) Delivered lectures on i) choice based credit system ii) new education policy iii) Industry 4.0 iv) Bharat stage VI norms vi) New and renewable fuels vii) forth generation biofuels viii) NBA awareness in various STTPs, workshops and other training programs.
- v) Was instrumental in organizing Mission 10X teaching skill development program of Wipro for the technical institutes under Sant Gadge Baba Amravati University jurisdiction. Conducted eight training programs for teachers at Sant Gadge Baba Amravati University and other affiliated institutes under this program.

Contribution in the field of Environment and wildlife conservation

- Founder member and president of renowned environmental organization in central India, 'Nature Conservation Society', Amravati
- Working for wildlife conservation in central India, mainly in Melghat since past 32 years.
- Member of Climate Change (India) program. Personally trained by former US Vice President Hon'ble Al Gore on Climate Change.
- Member of Satpuda Landscape Tiger Conservation Program, in association with wildlife research department of Oxford University, UK.
- Member of Central India Landscape Symposium (CILS) in association with University of Colombia, US
- Member of Local advisory committee of Melghat tiger reserve.

- Member of Amravati district biodiversity committee
- Regularly organizing environment education activities in schools and colleges since past 32 years
- Organized several ornithological expeditions in central India
- Assisted various govt organizations like SCERT, DIET in preparation of environment education handbooks.
- Assisted BNHS and CEE for development of environment education study material.

Books Published

- i) **‘Hand book on Energy & Nature Education,’** A project jointly undertaken by BNHS, India and RSPB, South Africa; Member of the working group for writing
- ii) **‘Training Manual on Environment Education for DIET, Maharashtra’,**
Member of the expert team for preparing
- iii) Member of the expert team for preparing **Teachers Training Manual On Environment Education** for SCERT, Maharashtra.
- iv) Member of the review committee for the Marathi Bird book by Centre for Environment Education (CEE); “Dosti Karuya Paksyanshi”

Honors and Awards:

- Recipient of ‘Best Lecture Award’ by **Indian Water Works Association (IWWA) year 2007**
- Honored by Green Teacher National award by Sanctuary Asia and ABN AMRO **year 2006**



Date: August-2024

Dr. Nishikant W. Kale