

Curriculum Vitae

Sunil Kumar

Assistant Professor
Department of Mechanical Engineering
Faculty of Engineering and Technology
Gurukula Kangri Vishwavidyalaya
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Research Interests

Internal combustion engines, Bioenergy, biofuels, biodiesel production; Stability studies of biodiesel.

Academic Background

2015 - Doctor of Philosophy (Pursuing)

Uttarakhand Technical University, Haridwar, India

Thesis: An experimental investigation on the performance of a Jatropha-Algae oil blend biodiesel as a fuel.

2008 - 2010 Master of Engineering (7.4 CGPA)

Mechanical Engineering

PEC University of Technology, Chandigarh, India

Thesis: An experimental investigation on EAF of Al_2O_3 -MMC cylindrical internal surface.

2005 -Bachelor of Technology (64.18%)

Mechanical Engineering

H.C.T.M. KAITHAL (Kurukshetra University Kurukshetra) India

1995-1998- Diploma in civil engineering (64.81%)

Government polytechnic Sirsa- India

Computer knowledge

Matlab

Window (all versions)

Professional Experience

August 2005 – August2006

- Lecturer, Saint Kabir Polytechnic College Fazilka.

August 2006 – March 2008

- . Lecturer, Shanti Niketan Institute of Engineering and Technology Hisar.

March 2008- September 2008

- . Lecturer, RIMT-IET Mandi Gobindgarh.

July 2010- February 2011

- Assistant Professor, Department of Mechanical Engineering, Hindu College of Engineering Sonapat.

February 2011- December 2011

- Assistant Professor, Department of Mechanical Engineering, G. V.I.E.T. Rajpura.

August 2012- Present

- Assistant Professor, Department of Mechanical Engineering, F.E.T. Gurukula Kangri Vishwavidyaliya Haridwar.

Memberships

- Life member: INDIAN SCIENCE CONGRESS ASSOCIATION.

Conferences/ Workshop/ Short term courses attended

- Three international conferences attended and papers presented.
- Nine national conferences attended and papers presented.
- Three days' Workshop on Efficient Energy Generation and Utilization in Uttarakhand.
- Two days Faculty Development Program on Teaching and Soft Skills.
- Two Short term course (One Week) attended.
- Nine weeks on line course "ENERGY X: SUSTAINABLE ENERGY: DESIGN A RENEWABLE FUTURE" from Delft University of Technology.

Professional Affiliation

- Coordinate AUTOSPARK workshop.
- Committee Member of national conference **LDMPE-2008**.
- Committee Member of national conference **ETES-2013**.

Refereed Journal Publications

1. **Kumar S**, Jain S and Kumar H. Prediction of jatropha-algae biodiesel blend oil yield with the application of artificial neural networks technique. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 41 (2019) 1285–1295
2. **Kumar S**, Jain S and Kumar H. Performance evaluation of adaptive neurofuzzy inference system and response surface methodology in modeling biodiesel synthesis from jatropha–algae oil. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 40 (2018) 3000–3008
3. **Kumar S**, S Kumar, A Kumar, S Maurya and V Deswal. Experimental investigation of the influence of blending on engine emissions of the diesel engine fueled by mahua biodiesel oil. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 40 (2018) 994–998
4. **Kumar S**, Jain S and Kumar H. Process parameter assessment of biodiesel production from a Jatropha–algae oil blend by response surface methodology and artificial neural network. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 39 (2017) 2119–2125
5. **Kumar S** and A. Manna. An Experimental Investigation during EAFF of Al/Al₂O₃-MMC. International Journal of Applied Engineering Research 5(2010)2943-2948
6. **Kumar S**, Garg S, Kumar S and Sahastranshu. Process parameters optimizing in injection moulding process on polypropylene. Discovery 52(2016), 1420-1425

7. **Kumar S**, Arora H and Singh D P. Parametric effect during plastic Injection molding process on polypropylene material. International Journal of Science, Technology & Management 4(2015), 118-1212.
8. **Kumar S**, Arora H and Singh D P. Determining the Optimum Parameters of Plastic Injection Moulding for the Production of Bottle Cover. International Journal of Science and Research 4(2015), 301-304.
9. **Kumar S** and Jain S. Areview on biodiesel production technique. The Engineering Journal of Application & Scopes, 3 (2018) 5-8.