

CURRICULUM VITAE

KAPIL DEV SHARMA

Assistant Professor

Mechanical Engineering Department

Faculty of Engineering & Technology, Gurukula Kangri University

Haridwar (Uttarakhand), India

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RESEARCH AREA

Municipal Solid Waste (MSW) Management, Biomethanation (Anaerobic Digestion), Gasification, Failure Mode and Effect Analysis (FMEA).

WORK EXPERIENCE (12 Years)

- As an Assistant Professor in Gurukula Kangri (Deemed to be University) Haridwar from August 2012 to till now on scale 15600-6000-39100.
- As a Lecturer in IMS Group of Institutions, J.P. Nagar, UP from July 2011 to July 2012.

ACADEMIC PROFILE

EDUCATION	BOARD/UNIVERSITY	COLLEGE	YEAR OF PASSING	MARKS OBTAINED
Ph.D. (Pursuing)	U.T.U. (Uttarakhand)	U.T.U. (Uttarakhand)	-	-
M. Tech. (Manufacturing System Engineering)	MNIT, Jaipur	MNIT, Jaipur	2011	7.06 CGPA
B. Tech. (Mechanical Engineering)	UPTU (Lucknow)	BIT, Muzaffarnagar	2009	75.98% (With Honours)
12 th Standard	UP BOARD	G.I.C. Najibabad	2005	66%
10 th Standard	UP BOARD	G.I.C. Najibabad	2003	61%

PATENT (Published/Granted)

- Patent Granted on “Coupling of Earth-tube Heat Exchanger with Solar Air Heating Duct” Application/Patent No: 2021103462 (June 2021)
- Patent Published on “Fused Deposition Modeling Process and System” Application No: 202211031403 A. (July 2022)
- Patent Published on “Process for Treatment of Municipal Solid Waste and Purification of the by-Products Generated” Application No.202211036900 A. (June 2022)

LIST OF PUBLICATIONS

International Journal

- Sharma, K.D., * and Jain, S., (2025). **Performance assessment of municipal solid waste operated modified downdraft gasifier for variations of air input and preheated air temperature.** Vol. 12, Issue 17, PP. 1-10, Environmental Health Engineering and Management Journal, ESCI indexed, ISSN: 2423-4311.
- Sharma, K.D., * and Jain, S., (2023). **Effect of different inoculum and substrate inoculum ratios**

on biogas yield for anaerobic digestion of organic fraction of solid waste. Vol. 25, Issue 10, PP. 15-24, Global NEST Journal, SCI indexed, ISSN: 1790-7632.

- Sharma, K.D., * and Jain, S., (2022). **Design of Floating Solar Panel: Case Study.** Vol. 20, Issue 10, PP. 6129-6139, NEUROQUANTOLOGY, Scopus indexed, ISSN: 6129-6139.
- Sharma, K.D., * and Jain, S., (2020). **Municipal solid waste generation, composition, and management: the global scenario.** Vol. 16, Issue 6, PP. 917-948, Social Responsibility Journal- Emerald Insight, ESCI indexed, ISSN: 1747-1117.
- Sharma, K.D., * and Jain, S., (2018). **Overview of Municipal Solid Waste Generation, Composition, and Management in India.** Vol. 145., Issue. 3., PP. 1-18., Journal of Environmental Engineering- ASCE Library, SCI Indexed, ISSN 0733-9372.
- Srivastava, S., * Kumar, S., Sharma, K.D., (2016). **Bottling of Biogas- A Renewable Approach.** Vol. 1., PP. 28-32., The Engineering Journal of Application & Scopes.

National Journal

- Sharma, K.D.*, Srivastava, S., Prajapati, R.K., Fore, V., Amrish (2024). **“Design and Fabrication of an Automatic Waste Segregation and Monitoring System”** Vol. 19, Issue 3, PP. 1235-1244, Current World Environment- An International Research Journal of Environmental Science, Enviro Research Publishers, Web of Science indexed, ISSN: 0973-4929.
- Sharma, K.D.*., Srivastava, S., Singh, J., (2021). **“Design, Construction, and Performance Testing of a Simple Low-Cost Solar Dryer for Agricultural and Food Products”** accepted in peer reviewed International Journal of Renewable Energy Technology (UGC Care), ISSN: 1757-3971.
- Sharma, K.D.*., and Srivastava, S., (2018). **Failure Mode and Effect Analysis (FMEA) Implementation: A Literature Review.** Vol. 5 (1&2.), PP. 1-17., in peer reviewed Journal of Advance Research in Aeronautics and Space Science, ISSN: 2454-8669.
- Sharma, K.D.*., and Srivastava, S., (2016). **Failure Mode and Effect Analysis (FMEA) for Enhancing Reliability of Water Tube Boiler in Thermal Power Plant.** in peer reviewed SAMRIDH-A Journal of Physical Sciences, Engineering and Technology: Vol. 8, ISSN: 2454-5767 (Online), PP. 79-85.

CONFERENCES (National)

- Sharma, K.D., * and Jain, S., (2020),, **“Detailed Analysis of Municipal Solid Waste Generation and Composition for Haridwar City, Uttarakhand, India”** International Conference on “Innovations in Clean Energy Technologies (ICET 2020)” 27th-28th August, 2020 Organized by Energy Centre, Maulana Azad National Institute of Technology, Bhopal. (**Springer Proceeding in Energy**).
- Published and Presented Paper in **“National Conference on Science & Technology for National Development ”**, 20-22th November 2016 at Department of Chemistry, GKV Haridwar, organized by Indian Science Congress Association (ISCA): Haridwar Chapter.
- Published and Presented Paper in **“National Conference on Science & Technology for National Development ”**, 20-22th November 2016 at Department of Chemistry, GKV Haridwar, organized by Indian Science Congress Association (ISCA): Haridwar Chapter.
- Published and Presented Paper in **“National Conference on Emerging Trends in Engineering &**

- Published and Presented Paper in "**National Conference on Emerging Trends in Engineering & Applied Science (ETES) ", 9-10th November 2013 at FET, GKV Haridwar.**

ORIENTATION/INDUCTION/FDP/STTP/WORKSHOP/STC

- Participated and Completed Successfully One Week FDP on "**Robotics and Industrial Automation**" from 4th Nov. to 9th Nov. 2024, organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad.
- Participated and Completed Successfully One Week FDP on "**Entrepreneurship & Innovation**" from 26th June to 1st July 2023, organized by Department of MBA, HMT Engineering College, Meerut.
- Participated and Completed Successfully One Week FDP on "**MATLAB and LabVIEW Programming for Engineering Applications**" from 20th to 24th June 2022, organized by National Institute of Technical Teachers' Training and Research, Chennai, India.
- Participated and Completed Successfully One Week FDP on "**Integration of Renewable Energy and Smart Grids for Smart Cities**" from 07th to 12th March 2022, organized Bansal Institute of Engineering and Technology, Lucknow, (U.P.) India.
- Participated and Completed Successfully One Week FDP on "**Holistic Development and Outcome Based Innovative Teaching**" from 14th to 20th Feb. 2022, organized by OM Sterling Global University, Hisar (Haryana) India.
- Participated and Completed Successfully 4-Week Induction/Orientation Programme for "**Faculty in Universities/ Colleges/ Institutes of Higher Education**" from 04th June to 01st July 2020. at Ramanujan College, the University of Delhi sponsored by **Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, MHRD, India.**
- Participated and Completed Successfully Two Weeks FDP on "**Managing Online Classes and Co-Creating MooCs**" from 20th April to 06th May 2020, at Ramanujan College, the University of Delhi sponsored by **Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, MHRD, India.**
- Participated and Completed Successfully One Week FDP on "**Alternate Fuels**" by **AICTE Training and Learning (ATAL) Academy** from 21th to 25th Sept. 2020, organized by Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
- Participated and Completed Successfully One Week FDP on "**Waste Technology**" by **AICTE Training and Learning (ATAL) Academy** from 26th to 30th Oct. 2020, organized by Dr. M.G.R. Educational and Research Institute, Chennai.
- Participated and Completed Successfully One Week FDP on "**Application of different Tools and Techniques for Academic and Research Writing & Reporting**" from 18th to 23rd May 2020, organised by R. R. Institute of Modern Technology, Lucknow.
- Participated and Completed Successfully One Week STC on "**Recent Trends in Renewable Energy Systems and Their Control (RESC-2020)**" from 14th to 18th Sept. 2020, organised by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab (India), Sponsored by

TEQIP-III.

- Participated and Completed Successfully Two Week Workshop on "**Comprehensive e-Learning to e-Training guide for Administrative Work**" from 25th May to 05th June 2020. organized by Ramanujan College, the University of Delhi sponsored by **Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, MHRD, India.**
- Attended One Day Workshop on "**IPR: Research & Innovation**" held on 24th April 2020. organized by College of Engineering Roorkee, Roorkee, India.
- Attended a Training Program on "**National Intellectual Property Awareness Mission (NIPAM)**" held on 22th April 2022 by Intellectual Property Office, India.
- Attended two days Webinar on "**BS-6 and Lean Manufacturing**" from 30th to 31th May 2020, organized by Mechanical Engineering Department, IPS Academy, Institute of Engineering and Science, Indore.
- Attended one-day Workshop on "**Virtual Workshop on Modeling, Simulation and Implementation using MATLAB and Simulink (MSIMS-20)**" held on 30th May 2020, organized by Bansal Institute of Engineering and Technology, Lucknow (U.P.) India.
- Participated and Completed Successfully the self-learning online course on "**Understanding Open Educational Resources**" organized by Commonwealth of Learning, Canada, 2020.
- Participated National Webinar on "**National Education Policy-NEP 2020: Opportunities, Challenges & Its Effective Implementation**" 29th April, 2021, organized by Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be University), Haridwar.
- Participated and Completed Successfully One Week STT Program on "**Bio-Energy: Technologies & Transitions**" from 13th to 17th May 2020, jointly organized by **National Institute of Technology, Kurukshetra** and **Government Engineering College, Bikaner** from **13-17 May 2020** under TEQIP-III, India.
- Participated and Completed Successfully On QIP Short-Term Course on "**Processing and Fabrication of Metal Matrix Composites**" 1-5th July 2013 organized by IIT Roorkee, Uttarakhand.
- Coordinated in Auto Spark workshop on "**Automobile Mechanics & IC Engines Design**" Organized by Horizon, 14-15th October 2012 organized by FET, GKV, Haridwar.
- Faculty Advisor in National e-Kart Racing Championship-2017** held at International Kart Racing Circuit, Bhopal and hosted by Radharaman Institute of Technology & Science, Bhopal from 29th Sept. to 3th Oct. 2017.

AWARDS/ACHIEVEMENTS

- Received **Best Teacher Award at the Institute Level** (FET, GKV, Haridwar) (2018-19).
- Received **Best Teacher Award at the Departmental level** (FET, GKV, Haridwar) (2018-19).
- Received **Best Teacher Award at the Departmental level** (FET, GKV, Haridwar) (2017-18).
- Received **Best Teacher Award at the Departmental level** (FET, GKV, Haridwar) (2015-16).
- Received **Best Teacher Award at the Departmental level** (FET, GKV, Haridwar) (2013-14).

- **Government of India (MHRD) fellowship** for doing M. Tech at Malviya National Institute of Technology, Jaipur, Rajasthan for two years during (2009-2011).
- **GATE Qualified in 2008 with** (AIR: 1415, Percentile Score: 92.18%, GATE Score-383, Registration No.: ME810422).
- **GATE Qualified in 2009 with** (AIR: 2327, Percentile Score: 89.97%, GATE Score-381, Registration No.: ME8090128).
- **GATE Qualified in 2015 with** (AIR: 31708, GATE Score: 321, Registration No.: ME88012S2096).
- **Gold Medal and A Cheque of Rs. 5100** in B. Tech final year for scoring highest marks at college level (2009, B.I.T Muzaffarnagar).
- **A Merit Certificate in XII** for scoring highest marks at college level (2005, G.I.C Najibabad).

M.TECH DISSERTATION AND B. TECH PROJECT

- M. Tech Dissertation on the topic **“Failure Analysis of Water Tube Boiler in a Thermal Power Plant- A Case Study”**
- B. Tech Project on the topic **“Exercycle Washing Machine”**

EXTRA CURRICULAR ACTIVITY

- Life Time Membership (L22510) of The Indian Science Congress Association, Kolkata.

AREAS OF INTEREST

- Theory of Machines (**TOM**)
- Strength of Materials (**SOM**)
- Fluid Mechanics (**FM**)
- I. C. Engines
- Manufacturing Processes (**MP**)

PERSONAL INFORMATION

Father's Name : Mr. NARENDRA PRASAD SHARMA

Mother's Name : Mrs. URMILA DEVI

Date of birth : 10 August 1988

Email : kapilshiva999@gmail.com

Marital status : Married

Nationality : Indian

Correspondence Add: Village Gadwala, Post Sahanpur, City Najibabad, District Bijnor, State- UP, Pin- 246749.

DECLARATION

I hereby declare that the information given above is correct to best of my knowledge.

Place:

Date: _____

(KAPIL DEV SHARMA)