

CURRICULUM VITAE

KAPIL DEV SHARMA

Assistant Professor

Mechanical Engineering Department

Faculty of Engineering & Technology, Gurukula Kangri University

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RESEARCH AREA

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

WORK EXPERIENCE (11 Years)

- As an **Assistant Professor in Gurukula Kangri Vishwavidyalaya 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) From Sept. 2016	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
- Patent Published on “Fused Deposition Modeling Process and System” Application No: 202211031403 A.
- Patent Published on “Process for Treatment of Municipal Solid Waste and Purification of the by-Products Generated” Application No.202211036900 A.

LIST OF PUBLICATIONS

International Journal

- Sharma, K.D.,* and Jain, S., (2020). **Municipal solid waste generation, composition, and management: the global scenario.** Vol. 16 No. 6, PP. 917-948, Social Responsibility Journal- Emerald Insight, ESCI Indexd, 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 Indexd, 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., 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 Approved), 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 SAMRIDDHI-A Journal of Physical Sciences, Engineering and Technology: Vol. 8, ISSN: 2229- 7111 (Print) & 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 & Applied Science (ETES) ”**, 9-10th November 2013 at FET, GKV Haridwar.
- 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 "**MATLAB and LabVIEW Programming for Engineering Applications**" from 15th 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 by 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, organized 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, organized 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 day 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 Samvishwavidyalaya, 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, Uttrakhand.
- 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) folloship** 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 : kapilsshiva999@gmail.com

Marital status : Married

Nationality : Indian

Correspondence Add: Vill- Garwala, Po- Shanpur, City- Najibabad, Di- 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)