

CURRICULUM VITAE

SANTOSH KUMAR

Assistant Professor
Mechanical Engineering

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Location: Varanasi, Uttar Pradesh, India

Career Objective

A dedicated and knowledgeable Assistant Professor in Mechanical Engineering with over 13 years of experience in academia. Seeking to contribute my expertise in subjects like Engineering Mechanics, Composite Materials, and Smart Manufacturing to a progressive institution, while fostering research, innovation, and value-based technical education.

Professional Experience

- **Assistant Professor**
Ashoka Institute of Technology and Management, Varanasi
October 2023 - Present
- **Assistant Professor**
Babu Banarasi Das Northern India Institute of Technology, Lucknow
March 2015 - December 2023
- **Senior Lecturer**
Babu Banarasi Das Northern India Institute of Technology, Lucknow
July 2012 - February 2015

Educational Qualifications

- **Ph.D.** (Pursuing from a State University)
Specialization: [To be updated from your State University portal]
- **M.Tech. (CAD/CAM and Manufacturing)**, 2010-2012
Motilal Nehru National Institute of Technology (MNNIT), Allahabad
Thesis: "Role of HVOF sprayed coating of WC-Co-Cr, NiCrSiB on slurry erosion wear of AISI 304 & 316 Substrates"
- **B.Tech. (Mechanical Engineering)**, 2006-2010
Babu Banarasi Das National Institute of Technology, Lucknow
- **XII (UP Board)**, 2004
MMM Bachchhavon, Varanasi
- **X (UP Board)**, 2002
MMM Bachchhavon, Varanasi

Publications:

1. **Santosh Kumar**, Abhay Kumar, S.K. Sharma, "Energy Auditing practices for HVAC Systems: An IoT-based Approaches", Vol. 14 No. S1 (2026): International Conference on SDT – Insights 2026
2. **Santosh Kumar**, N.K. Mishra, S.B. Mishra, "Role of HVOF sprayed coating of WC-Co-Cr, NiCrSiB on slurry erosion wear of AISI 304 & 316 Substrates", *International Journal of Scientific Processes Research and Application (IJSPPRA)*, ISSN 2454:5376, Vol.1, Issue 3, September-October 2015.

3.Santosh Kumar, N.K. Mishra, S.B. Mishra, "Role of HVOF sprayed coating of WC-Co Cr,NiCrSiB on slurry erosion wear of AISI304 & 316 Substrates", *National Conference on Challenges & Opportunities for Technology Innovation in India (COTTI-2013)*, 16th February 2013.

4.N. K. Mishra, **S. Kumar**, S. B. Mishra, "The Coating Technology – A solution to oxidation and hot Corrosion", *National Conference on Challenges & Opportunities for Technology Innovation in India (COTTI-2013)*, 16th February 2013.

Faculty Development Programs & Workshops

- **Capacity Building for Design and Entrepreneurship (CBDE) Workshop**
Indian Institute of Information Technology Allahabad (IIITA) | Aug 2025
(Under Malaviya Mission Teacher Training Program)
- **Empowering Smart Manufacturing through Advanced Human-Robot Collaboration**
AICTE ATAL Academy, Lendi Institute of Engineering & Technology | Sep 2025
- **Progress in Composite Materials & Applications (PCMA-2025)**
Madan Mohan Malaviya University of Technology, Gorakhpur | Apr 2025
- **Inculcating Universal Human Values in Technical Education**
AICTE, Ashoka Institute of Technology and Management, Varanasi | Aug 2024
- **Online Workshop on Patent & Paper Writing**
KIPM College of Engineering & Technology, Gorakhpur | Mar 2024
- **Universal Human Values & Professional Ethics (FDP Level-1)**
Dr. A.P.J. Abdul Kalam Technical University, Lucknow | Jun 2019
- **A short-term online course on Sustainable Materials**
For Next-Generation Composites and Food Packaging and Systems (SMCFP-2026) held from 3 February rd to 7th February 2026.
- **A SHORT-TERM SEMINAR On :**
Modeling, simulation, Processing and characterization of Polymer nano-composites (MSPCPN-2013) BY 'Motilal Nehru National Institute of Technology Allahabad', India

Certifications & Online Courses (NPTEL)

- **Nanotechnology, Science and Applications**
IIT Madras | Jul-Sep 2025 | Score: 76%
- **Processing of Polymers and Polymer Composites**
IIT Roorkee | Jan-Mar 2025 | Score: 68%
- **Fundamentals of Manufacturing Processes (MOOCs)**
NPTEL | Certified in Jan 2019| Score: 70%

Technical & Software Skills

- **Software:** ANSYS, AutoCAD, LabVIEW, MS Office, MS Excel
- **Areas of Interest:** Smart Manufacturing, Human-Robot Collaboration, Composite Materials, Coating Technology, Slurry Erosion, CAD/CAM, Polymer Processing.

Academic Contributions

- **Paper Setter/Examiner** for:
 - Shri Ramswaroop Memorial University (SRMU), Lucknow 2020
 - Babu Banarasi Das University (BBDU), Lucknow 2019
 - Dr. Rammanohar Lohia Avadh University 2025
- **Roles at AKTU University:**
 - Observer for End Semester Examinations
 - Practical Examiner
 - Evaluator

Projects & Internships

- **Summer Internship at Diesel Locomotive Works (DLW), Varanasi**
Department: TMS, LMS, HTS, CMT | Duration: 4 Weeks
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Achievements

- Qualified **Graduate Aptitude Test in Engineering (GATE) 2010** with **94.00 Percentile**.

Personal Details:

- **Date of Birth:** 6th November 1986
 - **Nationality:** Indian
 - **Gender:** Male
 - **Marital Status:** Married
 - **Languages Known:** Hindi, English
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Declaration

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

Date:

Place: Varanasi

(SANTOSH KUMAR)