

CURRICULUM VITAE

Dr. NAGENDRA KUMAR MISHRA

Mobile No. – 9451061677
E-mail: nkm1676@gmail.com



ACADEMIC/INDUSTRIAL EXPERIENCE: 25 Years

Educational Qualification: B.E (Hons) (Mechanical Engineering), M.Tech. (Mechanical Engineering), Ph.D. (Mechanical Engineering)

AREA OF INTREST: Engineering Mechanics, Theory of Machine, Basic Thermodynamics.

Details of Seminars/Conferences/Workshops Attended

- Participation in a three days workshop on “Mechanical System Design” from 30th Jan. to 1st Feb. 2004 at **Northern India Engineering College, Lucknow** organized by **Uttar Pradesh Technical University, Lucknow**.
- Participation in the International Conference on “**Recent Advances In Composite Materials**”, from 17th to 19th Dec 2004 at **IT BHU Varanasi** sponsored by **AFOSR-AOARD (USA)**.
- Participation in the Short term **QIP** course on “**Recent Trends In Advanced Composites**” from 10th to 14th Oct 2005 at **IIT Kanpur**.
- Participation in Staff Development Program entitled “**Fundamentals Of Tribology and Materials For Tribological Applications**” from 27th Feb to 11th Mar 2006 at **IT-BHU Varanasi**.
- Participation in the International Conference on “**Challenges and Strategies for Sustainable Energy, Efficiency and Environment**” from 10th Jun to 11th Jun 2006 at **U. P. Technical University, Lucknow**.
- Participation in a two days national workshop on “**Use and Deployment Of Web and Video Courses for Enriching Engineering Education**” under **National Programme on Technology Enhanced Learning** from 27th to 28th June , 2007 at **IIT Kanpur**.

- Participation in a Faculty Development Programme sponsored by the Ministry of Human Resource Development & All India Council for Technical Education, New Delhi, on “**Knowledge Management: Concepts, Issues & Application**” from 23rd June to 4th July, 2008 at **MNNIT Allahabad**.
- Participation in the self-financed Short term course on “**Modeling, Simulation, Processing and Characterization of Polymer Nanocomposites (MSPCPN-2013)**” from 9th July to 13th July, 2013 at **MNNIT Allahabad**.
- Participation in the self-financed Short term course on “**Micromanufacturing: Materials ,Processes and Systems (MMPS-2014)**” from 17th June to 21st June, 2014 at **MNNIT Allahabad**.
- Member of Organizing Committee for One Week Faculty Development Programme on “**Emerging Trends in Computational Intelligence**” organized by **Babu Banarasi Das Northern India Institute of Technology, Lucknow (AKTU Code-056)** and sponsored by **Dr. A.P.J. Abdul Kalam Technical University, Lucknow (Under TEQIP-III)** from 18th June to 22nd June, 2018.
- Participation in the Management Development Programme on “**Leadership Skills and Team Management for the Deans & HoDs of AKTU affiliated Institutions**” from 16th May to 19th May, 2019 at **IIM Lucknow**.
- Participation in the One Week Faculty Development Programme on “**Emerging Trends in Computational Intelligence**” organized by **Babu Banarasi Das Northern India Institute of Technology, Lucknow (AKTU Code-056)** and sponsored by **Dr. A.P.J. Abdul Kalam Technical University, Lucknow (Under TEQIP-III)** from 18th June to 22nd June, 2019.
- Participation in the Management Development Programme on “**Managing Start-up Incubation and Ecosystem for the Faculty Members of AKTU affiliated Colleges**” from 14th July to 18th July, 2019 at **IIM Lucknow** .
- Participation in the Faculty Development Programme on “**Product Development**” conducted by the **Centre for Continuing Education IIT Kanpur** from January 15 to January 19, 2020 funded by **Technical Education Quality Improvement Programme Phase-III, AKTU**.
- Participation in QIP Short Term Course (Online) “**Advanced Ceramics and Composites for Multifunctional Applications**” conducted by the **Department of Materials Science and Engineering, IIT Kanpur** from 1st to 6th March 2021.

- Participation in Five Days Online Faculty Development Programme on “**Research Methodology**”, Organized by School of Education. Lingaya's Vidyapeeth from 10th May to 14th, 2021.
- Participation in the **Online Orientation Training Programme for Mentors** organized from 27 September - 01 October 2021 under **National Initiative for Technical Teachers Training, AICTE, New Delhi.**
- Participation in the AICTE Recognized Faculty Development Programme “**NEP 2020 Implementation in Higher Education Institutes**” Conducted by Curriculum Development Centre Department from 09th May, 2022 to 13th May 2022 (One Week) at **Babu Banarasi Das Northern India Institute of Technology, Lucknow**
- Participation in the AICTE Recognized Faculty Development Programme “**Developing Academic and Administrative Leadership**” Conducted by Curriculum Development Centre Department from 12th December, 2022 to 16th December 2022 (One Week) at **Babu Banarasi Das Northern India Institute of Technology, Lucknow**
- Participation in the AICTE Recognized Faculty Development Programme “**Curriculum Development Proceesse**” Conducted by Curriculum Development Centre Department from 15th May, 2023 to 19th May 2023 (One Week) at **Babu Banarasi Das Northern India Institute of Technology, Lucknow**
- Participation in the AICTE Recognized Faculty Development Programme “**Curriculum Development Proceesse**” Conducted by Curriculum Development Centre Department from 15th January, 2024 to 19th January 2024 (One Week) at **Babu Banarasi Das Northern India Institute of Technology, Lucknow**
- Participation in Five Days Faculty Development Program in Microsoft, SAP & AICTE led Faculty Development Program on “AI Evolution: From Foundations to Generative AI” under TechSaksham from 5th February, 2024 to 9th February 2024
- Participation in Five Days Online Faculty Development Program on “**Trends in Technological Intelligence (T2I 2023)**” organized by **Departments of Electronics and Communication Engineering and Department of Electrical Engineering, BBDNIIT, Lucknow (AKTU College Code 056)**” from 21st August to 25th August, 2023

Achievements:

1. **“Recipient of All India Residential Merit School Scholarship” by Govt. of India.**
2. NPTEL Online Certification (Funded by the Ministry of HRD, Govt. of India) on **“Nature and Properties of Material”** with a consolidated score of **69%(Elite)**.
3. NPTEL Online Certification (Funded by the Ministry of HRD, Govt. of India) on **“NBA Accreditation and Teaching – Learning in Engineering (NATE)”** with a consolidated score of **98%(Elite)**.
4. **Active SPOC** NPTEL Certificate of Appreciation for instrumental role as SPOC for the **SWAYAM-NPTEL** Local Chapter for JULY-October, 2018.
5. Certificate of appreciation from E&ICT, IIT Kanpur for **instrumental role as SPOC** for the **Babu Banarasi Das Northern India Institute of Technology, Lucknow** based on performance in E&ICT online course during July 2019-December 2019.
6. **Active SPOC** NPTEL Certificate of Appreciation for instrumental role as SPOC for the **SWAYAM-NPTEL** Local Chapter for JULY-December, 2019.
7. Certificate of Recognition from E&ICT, IIT Kanpur at **Babu Banarasi Das Northern India Institute of Technology, Lucknow** for instrumental role as a SPOC during September 2020 to February 2021 for MOOCs Course KNC301/302 (Python / Computer System Security).
8. **Active SPOC** NPTEL Certificate of Appreciation for instrumental role as SPOC for the **SWAYAM-NPTEL** Local Chapter for JULY-October, 2023.

Computer Skills:

Languages: Fortran, C++

Simulation Tool: MatLab

Designing Tool: Auto Cad

Publications:

#	Title of the Research Paper	URL	Name of Publication	Date of Publication	ISSN / Volume	SCI / ESCI / SCIE / SCOPUS
1	Characterisation and oxidation of LVOF sprayed Al ₂ O ₃ -40% TiO ₂ coating on superni 601 and superni 718 superalloys at 800 and 900°C	https://journals.sagepub.com/doi/full/10.1179/1743278214Y.0000000166	Corrosion Engineering, Science and Technology	01 December, 2014	ISSN 1478-422X Online ISSN 1743-2782	SCIE
2	Oxidation resistance of low-velocity oxy fuel-sprayed Al ₂ O ₃ -13 TiO ₂ coating on nickel-based superalloys at 800 °C	https://www.sciencedirect.com/science/article/abs/pii/S0257897214007099?via%3Dihub	ELSEVIER Surface and Coatings Technology	15 December, 2014	Online ISSN 1879-3347	SCIE
3	Hot corrosion performance of LVOF sprayed Al ₂ O ₃ -40% TiO ₂ coating on Superni 601 and Superco 605 superalloys at 800 and 900°C	https://link.springer.com/article/10.1007/s12034-015-0986-9	SPRINGER Bulletin of Materials Science	04 December, 2014	ISSN: 0250-4707 (Print) ISSN: 0973-7669 (Web)	SCIE
4	Hot Corrosion Behaviour of Detonation Gun Sprayed Stellite-6 and Stellite-21 Coating on Boiler Steel SAE 431 at 900°C	https://onlinelibrary.wiley.com/doi/10.1155/2014/146391	WILEY International Journal of Corrosion	06 May, 2014	ISSN: 1687-9325 (Print) ISSN: 1687-9333 (Online)	ESCI
5	Hot Corrosion Behaviour of Detonation Gun Sprayed Al ₂ O ₃ -40 TiO ₂ Coating on	https://onlinelibrary.wiley.com/doi/10.1155/2014/453607	WILEY Indian Journal of Materials Science	11 February, 2014	ISSN: 0974-7486 (PRINT)	SCOPUS

	Nickel Based Superalloys at 900°C					
6	Comparative Study of Oxidation and Hot Corrosion Behavior of Uncoated and Detonation Gun Sprayed Cr3C2-25NiCr Coating on SA516 Boiler Steel at 800°C	https://onlinelibrary.wiley.com/doi/10.1155/2014/146391	WILEY International Journal of Corrosion	06 May, 2014	ISSN: 1687-9325 (Print) ISSN: 1687-9333 (Online)	ESCI
7	Effect of Hot Corrosion on SA-213 and SA-516 Boiler Steels in Na2SO4-50%NaCl Molten Salts Environment at 800°C	https://techjournals.stmjournals.in/index.php/JoAET/article/view/154	STM Journal of Aerospace Engineering & Technology (JoAET)	2018	eISSN: 2231-038X	SCOPUS
8	Oxidation resistance of uncoated & detonation-gun sprayed WC-12Co and Ni-20Cr coatings on T-22 boiler steel at 900°C	10.1088/1757-899X/377/1/012076	IOP Conference Series: International Conference on Mechanical, Materials and Renewable Energy	2018	CONFERENCE PAPER	-
9	Analysis of Oxidation Behavior on T-22 Boiler steel at 800°C	https://engineeringjournals.stmjournals.in/index.php/JoPC/article/view/3696	Journal of Polymer & Composites	2020	ISSN : 2321-2810	SCOPUS
10	Analysis of Oxidation Behavior on Alloys and Supper Alloys at 800°C	https://issuu.com/tjprc/docs/2-67-1585986336-104.ijmperdapr2020104	International Journal of Mechanical and Production Engineering Research and Development,	18 May, 2020	ISSN (P) 2249-6890 ISSN (E) 2249-8001	SCOPUS
11	Slurry Erosion Wear Performance of Detonation-Gun Sprayed Al2O3-13TiO2 and	https://www.researchgate.net/publication/265294516_Slurry_Erosion_Wear_Performance_of_Detona	INTERNATIONAL CONFERENCE ON ADVANCES IN TRIBOLOGY [ICAT14] At: NIT Calicut	21-23 February, 2014	Volume: February 21-23, 2014	Conference

	Al ₂ O ₃ -40TiO ₂ Coatings on SAE 304L Steel	tion-Gun_Sprayed_Al2O3-13TiO2_and_Al2O3-40TiO2_Coatings_on_SAE_304L_Steel				
12	The Coating Technology – A solution to oxidation and hot Corrosion	https://www.slideshare.net/slideshow/national-conference-on-challenges-and-opportunities-for-technological-innovation-in-india-cotii2013/15934586	Ambalika Institute of Management & Technology in Lucknow	16 February, 2013	16 February, 2013	Conference
13	Oxidation Resistance of Low Velocity Oxy Fuel Sprayed Al ₂ O ₃ -13TiO ₂ Coating on Nickel Based Superalloys at 800°C	https://www.sciencedirect.com/science/article/abs/pii/S0257897214007099?via%3Dihub	ELSEVIER Surface and Coatings Technology 260	15 December 2014	ISSN: 1879-3347 (Online)	SCIE
14	Effect of LVOF sprayed coating in Oxidation and Hot corrosion performance of Superco 605 at different temperatures	https://www.researchgate.net/publication/265294311_Effect_of_LVOF_sprayed_coating_in_Oxidation_and_Hot_corrosion_performance_of_Superco_605_at_different_temperatures	International Conference on Innovative Technologies in Mechanical Engineering	24-25 August, 2012	Volume: August 24-25, 2012	Conference
15	Nano-Technology: Towards Tiny Tech Age	-	National conference on advances in Mechanical Engineering (NCAME-2009)	28 th February & 1 st March 2009	-	-
16	Oxidation performance of Detonation-Gun sprayed Ni-20Cr	-	International Conference on Design, Materials & Manufacturing	27-28 March, 2017	-	-

	and WC- 12Co coatings on T-22 boiler steel at 750oC and 900oC		Concerns in Production of Quality Engineering Goods	HBTU Kanpur		
17	High Temperature Oxidation Behavior of Detonation Gun Sprayed Ni-20 Cr, Wc-12Co Coating on T-22 Boiler Steel at 800oC”	-	International Conference on Design, Materials & Manufacturing Concerns in Production of Quality Engineering Goods	27-29 March, 2017 HBTU Kanpur	-	-
18	High Temperature Oxidation Behavior of Detonation Gun Sprayed Cr ₃ C ₂ -25 NiCr Coating on SA-516 Boiler Steel at 800oC under cyclic condition	-	International Conference on Manufacturing Technology and Simulation	7-8 July, 2017 IIT Madras.		
19	Cyclic oxidation of 304L and 316L stainless steel coated and uncoated with Cr ₃ C ₂ -NiCr at elevated temperatures	DOI: 10.2478/msp-2025-0010	Materials Science-Poland	Accepted 16 April 2025	Volume 43 Issue 1 · pp. 103–114 ·	ESCI
20	Thermodynamic investigation on the use of transcritical carbon dioxide in a reheat gas turbine-based combined cooling and power cycle	rigeration (2026) 34:4 https://doi.org/10.1007/s44189-026-00097-3	International Journal of Air-Conditioning and Refrigeration	Accepted: 4 January 2026	(2026) 34:4	SCIE
21	Design and fabrication of electrical foldable tricycle		International Journal of Innovative Research of Technology	Accepted: May 2026	Volume 12 Issue 12· pp. 103–114	

BOOKS PUBLICATIONS:-

#	Title of the Book	URL	Name of Publication	Date of Publication	ISBN	Author Position
1	A Text Book of Renewable Energy Resources	https://www.walnutpublication.com/book/9789359119861/	Walnut	Apr 24, 2025	9789359119861 & 9359119865	Second
2	Basic Mechanical Engineering Text Book	Mechanical-Engineering-Certified-Scientific-Publication/dp/197193805X	Geh Publication	24 November 2025	197193805X & 978-1971938059	Third

PATENTS:-

S. No.	Title of Patent	Application No.	Date of Filing	Status	Author
1.	Smart Mechanical Failure detecting Device	506824-001	23/06/2026	Awaited Publication for	Co-Inventor

Projects/Thesis Guided:

U. G. Project Guided: 15 (Fifteen)

P. G. Thesis Guided: 02(Two)

Ph.D. Thesis Guided: 01 (One)

Vocational Training:

Hindustan Aeronautics Limited, Lucknow for two weeks.

Extra Activities:

- Establishing the following labs in B. Tech.:
 - o Material Science Lab
 - o Measurement and Metrology Lab
 - o Refrigeration and Air conditioning Lab
 - o Fluid Mechanics Lab
 - o Fluid Machinery Lab
 - o Heat & Mass Transfer Lab
 - o Automobile Engineering Lab

- Member of various committees at institute level such as Flying Squad, Disciplinary committee, Proctorial Board etc.
- Involved in following activities in Uttar Pradesh Technical University: -
 - o As Observer for the end semester examination.
 - o As evaluator.
 - o As Practical Examiner.

Personal Details:

Date of Birth: 01st June 1976

Father's Name: Mr.Murli DharMishra

Sex: Male

Address: H.No.-85, Dwarika Vihar, Opp. Shiva Public School, Near Munshi Pulia, Indira Nagar

Nationality: Indian

Language Known: English, Hindi & Kannada

Declaration: I hereby declare that the information furnished above is true to the best of my knowledge.

Date: (Dr. Nagendra Kumar Mishra)

Place: Lucknow