

CURRICULUM VITAE



DR. NAGENDRA KUMAR MISHRA

Designation: Professor & Head

Department: Mechanical Engineering

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ACADEMIC/INDUSTRIAL EXPERIENCE:

- **Professor & Head**, Department of Mechanical Engineering, Babu Banarasi Das Northern India Institute of Technology, Lucknow , March 2015- Till Date.
- **Assistant Professor & Head**, Department of Mechanical Engineering, Babu Banarasi Das Northern India Institute of Technology, Lucknow , September 2009- February 2015.
- **Assistant Professor**, Department of Mechanical Engineering, Babu Banarasi Das Northern India Institute of Technology, Lucknow , March 2007- February 2015.
- **Sr. Lecturer**, Department of Mechanical Engineering, Babu Banarasi Das Northern India Institute of Technology Lucknow, November 2005 - February 2007.
- **Lecturer** , Department of Mechanical Engineering , Babu Banarasi Das Northern India Institute of Technology, Lucknow, August 2000 - November 2007.
- **Guest Lecturer** , Department of Mechanical Engineering ,Institute of Engineering & Technology, M.J.P. Rohilkhand University, Bareilly, January 1999 - July 2000.

QUALIFICATION: -

- **Ph.D. : 2015, Doctor of philosophy** in “Mechanical Engineering”
Motilal Nehru National Institute of Technology, Allahabad.
Research Supervisors: Dr. S. B. Mishra, Dr. R. Kumar,
Thesis Topic: “Studies on Oxidation, Hot Corrosion and Slurry Erosion Wear of LVOF and Detonation Gun Sprayed Coatings”

- **M. Tech. : 2008, Master of Technology** in “Mechanical Engineering”

Uttar Pradesh Technical University, Lucknow,

Research Supervisor: Dr. J.P. Dwivedi (Professor, Department of Mechanical Engineering, Indian Institute of Technology, BHU, Varanasi)

Thesis Topic: “Comparison Of Non Axisymmetric Dynamic Response Of Buried Thick And Thin Orthotropic Cylindrical Shell Due To Incident Shear Wave”.

- **B. E.: 1998 , Bachelor of Engineering** in “Mechanical Engineering”

Basaveshwar Engineering College, Bagalkote, Karnataka

Project Title: Compensation Of Volumetric Efficiency Drop By Supercharging Ceramic Coated Diesel Engines Using Honge Oil As Alternate Fuel”

Funding Agency : Karnataka State Council of Science & Technology

AREA OF INTEREST:- Coatings, Oxidation and Hot Corrosion

RESEARCH PUBLICATIONS:-

1. **N. K. Mishra**, S. B. Mishra, R. Kumar, (2015), “Characterisation and oxidation of LVOF sprayed Al_2O_3 -40% TiO_2 coating on superalloys”, Surface Engineering, Vol. 31, No. 5, pp. 349 - 353.
2. **N. K. Mishra**, S. B. Mishra, (2014), “Characterisation and oxidation of LVOF sprayed Al_2O_3 -40% TiO_2 coating on Superni 601 and Superni 718 superalloys at 800 and 900°C”, Corrosion Engineering, Science and Technology (Formerly British Corrosion J.), Vol. 49, No. 8, pp. 705-711.
3. **N. K. Mishra**, S. B. Mishra, R. Kumar, (2014), “Oxidation resistance of low-velocity oxy fuel-sprayed Al_2O_3 -13 TiO_2 coating on nickel-based superalloys at 800°C”, Surface & Coatings Technology, Vol. 260, pp. 23-27.
4. **N. K. Mishra**, S. B. Mishra, (2015), “ Hot Corrosion performance of LVOF sprayed Al_2O_3 -40% TiO_2 coating on Superni 601 and Superco 605 superalloys at 800°C and 900°C”, Bulletin of Materials Science, Vol. 38, No. 7, pp. 1679-1685.

5. **N. K. Mishra**, A. K. Rai, S. B. Mishra, R. Kumar, (2014), “ Hot corrosion behaviour of detonation gun sprayed stellite-6 and stellite-21 coating on boiler steel SAE 431 at 900°C”, International Journal of corrosion, vol. 2014, Article ID 146391, 4 pages. <http://dx.doi.org/10.1155/2014/146391>.
6. **N. K. Mishra**, Naveen Kumar, S. B. Mishra, (2014), “Hot corrosion behaviour of detonation gun sprayed Al₂O₃-40TiO₂ coating on nickel based superalloys at 900°C,” Indian Journal of Materials Science, vol. 2014, Article ID 453607, 5 pages. <http://dx.doi.org/10.1155/2014/453607>.
7. Anil Kumar, Vivek Srivastava, **N. K. Mishra**, (2018), “Comparative Study of Oxidation and Hot Corrosion Behavior of Uncoated and Detonation Gun Sprayed Cr3C2-25NiCr Coating on SA516 Boiler Steel at 800°C” , Journal of Aerospace Engineering & Technology , Vol. 8, No. 1, pp. 5-10.
8. Anil Kumar, **N. K. Mishra**, Vivek Srivastava, , (2018), “ Effect of Hot Corrosion on SA-213 and SA-516 Boiler Steels in Na₂SO₄-50%NaCl Molten Salts Environment at 800°C, Journal of Aerospace Engineering & Technology , Vol. 8, No. 2, pp. 1-6.
9. Anil Kumar, Vivek Srivastava, **N. K. Mishra**, (2018), “Oxidation resistance of uncoated & detonation-gun sprayed WC-12Co and Ni-20Cr coatings on T-22 boiler steel at 900°C”. In IOP Conference Series: Materials Science and Engineering, vol377, no. 1, p. 012076 IOP Publishing.
10. Anil Kumar, Vivek Srivastava, **N. K. Mishra**, (2020), “Analysis of Oxidation Behavior on T-22 Boiler Steel at 800°C”, Journal of Polymer & Composites , , Vol. 8, No. 1, pp. 18-25.
11. Anil Kumar, Vivek Srivastava, **N. K. Mishra**, (2020), “Analysis of Oxidation Behavior on Alloys and Supper Alloys at 800°C, International Journal of Mechanical and Production Engineering Research and Development, Vol. 10, No. 2, pp. 1079-1084.
12. A. S. Yadav, **N. K. Mishra**, S. B. Mishra, (2014), “Slurry erosion wear performance of detonation- gun sprayed Al₂O₃-13TiO₂ and Al₂O₃-40TiO₂ coatings on SAE 304L steel”, Published in the Proc. of the International Conference on Advances in Tribology-2014 held at NIT Calicut, India during February 21- 23, 2014.

13. **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.
14. **N. K. Mishra**, S. B. Mishra, R. Kumar, (2014), "Oxidation resistance of low velocity oxy fuel sprayed Al₂O₃-13TiO₂ coating on nickel based superalloys at 800°C", Presented in the 41st International Conference on Metallurgical Coatings and Thin Films Proceedings Symposia, April 28- May 2, 2014, San Diego, California, USA. Paper Ref. No. ICMCTF_2014-D-14-00106
15. V. K. Sahu, **N. K. Mishra**, S. B. Mishra, "Effect of LVOF sprayed coating in Oxidation and Hot corrosion performance of Superco605 at different temperatures", International Conference on Innovative Technology in Mechanical Engineering, 24th & 25th August 2012.
16. **N. K. Mishra**, S. B. Mishra, Saurabh Dixit, "Nano-Technology: Towards Tiny Tech Age" National conference on advances in Mechanical Engineering (NCAME-2009), Moradabad Institute of Technology, 28th February & 1st March 2009.
17. Anil Kumar, **N. K. Mishra**, Vivek Srivastava, "Oxidation performance of Detonation-Gun sprayed Ni-20Cr and WC- 12Co coatings on T-22 boiler steel at 750°C and 900°C", International Conference on Design, Materials & Manufacturing Concerns in Production of Quality Engineering Goods March 27- 28, 2017 HBTU Kanpur.
18. Anil Kumar, **N. K. Mishra**, Vivek Srivastava, "High Temperature Oxidation Behavior of Detonation Gun Sprayed Ni-20 Cr, Wc-12Co Coating on T-22 Boiler Steel at 800°C", International Conference on Design, Materials & Manufacturing Concerns in Production of Quality Engineering Goods March 27- 29, 2017 HBTU Kanpur.
19. Anil Kumar, Vivek Srivastava, **N. K. Mishra**, M. Furquan, " High Temperature Oxidation Behavior of Detonation Gun Sprayed Cr₃C₂-25 NiCr Coating on SA-516 Boiler Steel at 800°C under cyclic condition", International Conference on Manufacturing Technology and Simulation July 7-8, 2017 IIT Madras.

BOOK PUBLICATION (If Any):-

FDP / FTP / CONFERENCES ATTENDED:-

1. 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**.
2. 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)**.
3. Participation in the Short term **QIP** course on “**Recent Trends In Advanced Composites**” from 10th to 14th Oct 2005 at **IIT Kanpur**.
4. 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**.
5. 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**.
6. 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**.
7. 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**.
8. 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**.
9. 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**.

10. 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.
11. 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**.
12. 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.
13. 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**.
14. 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**.
15. 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**.

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)**.

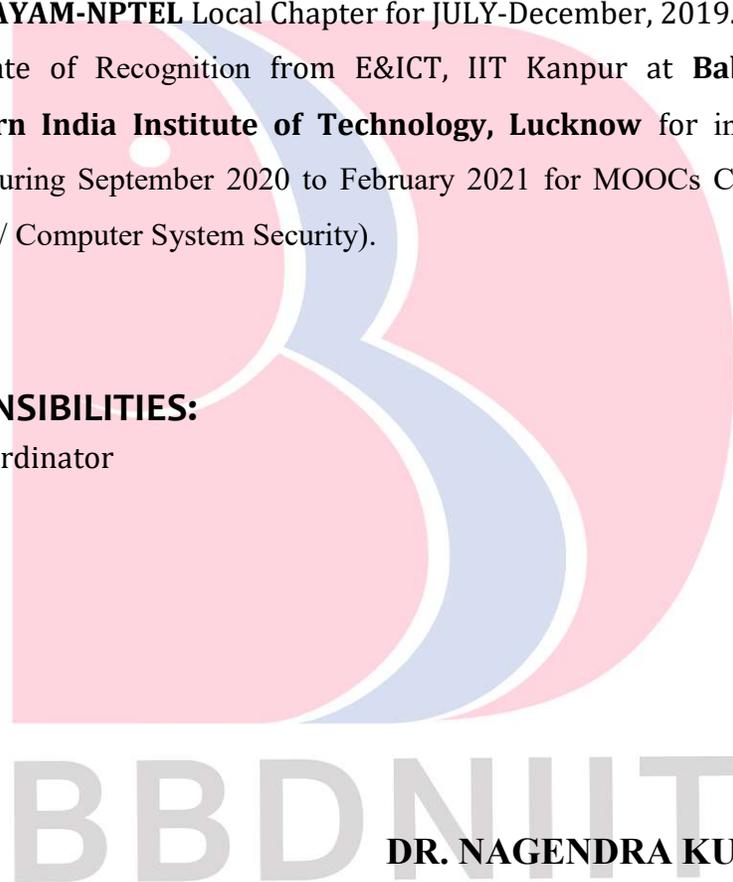
4. **Active SPOC** NPTEL Certificate of Appreciation for instrumental role as SPOC for the **SWAYAM-NPTEL** Local Chapter for JULY-October, 2018.
5. Certificate of appreciation from E&ICT, IIT Kanpur for **instrumental role as SPOC** for the **Babu Banarasi Das Northern India Institute of Technology, 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).

OTHER RESPONSIBILITIES:

- 1) Alumni Coordinator
- 2) SPOC

Date: 06/06/2022

Place: Lucknow



DR. NAGENDRA KUMAR MISHRA