

BIODATA

1. **Name:** Dr. KHUSHDEEP GOYAL
 2. **Designation:** Professor
 3. **Department :** Mechanical Engineering Department

4. Education Details:

Examinations	Board/University	Year of Passing	Marks	Scholarships/Merit Position
10 th	PSEB MOHALI	1996	88.4%	Merit Position in Punjab, First position in Sangrur District
12 th	PSEB MOHALI	1998	79.7%	Merit Position in Punjab, Second position in Sangrur District
B.Tech.	GZSCET Bathinda/PTU	2002	71.2%	Freeship during B.Tech.
GATE	IISC BANGLORE	2002	91.19 Percentile	Rupees 5000/- pm teaching assistantship at PEC
M.E.	PEC, Chandigarh/PU	2004	74.4%	Panjab University Topper
Ph.D.	Punjabi University	Topic: HIGH TEMPERATURE DEGRADATION BEHAVIOUR OF THERMAL SPRAYED CARBON NANOTUBES REINFORCED COATINGS ON BOILER STEEL (2018)		

5. Experience:

- Lecturer in KCCEIT, Nawanshahr from 12-05-2004 to 05-05-2005.
- Topped Punjab state recruitment exam and interview conducted by Department of Technical Education Punjab** and worked as Lecturer/Assistant Professor in MIMIT Malout (Punjab Govt. Institute) from 12-05-2005 to 02-11-2006.
- Assistant Professor in Mechanical Engineering in Punjabi University from 03-11-2006 to 11-05-2018
- Associate Professor in Mechanical Engineering in Punjabi University from 12-05-2018 to 11-05-2021
- Professor in Mechanical Engineering in Punjabi University w.e.f .12-05-2021

6. Responsibilities/Positions Held:

- Member, University Examination Advisory Committee (2018-2020) (University Examination form online project implemented)
- Member, Board of Studies (Mechanical Engineering)/Ph.D. Course Committee
- Coordinator, Extra-curricular Activities Committee
- Coordinator, Admissions Committee
- Member, NAAC Committee of Department
- Member, Administrative Committee of Department
- AICTE approval/extension Committee
- Sports Committee of Department
- Member, Youth Festival Meals Committee
- Coordinator, Examinations Committee of Department

7. Research Profile:

Google Scholar link	https://scholar.google.com/citations?hl=en&user=s1AXfugAAAAJ
Research Metrics	Citations: 828, h-index: 18, i10 index: 30
Research Papers	50 in SCI/WoS/Scopus Indexed International Journals (Publishers: Springer, Taylor and Francis, Elsevier, Emerald, Institute of Physics (UK), Wiley, Sage) 38 in Other UGC approved/ Refereed Journals 19 Presented in International Conferences
Reviewer/Editor	Reviewer of research papers of SCI indexed International Journals published by Springer/Elsevier/Taylor and Francis/Emerald/Wiley/IOP, Editorial team member of SCI/Scopus Indexed International Journal
Major Research Area	Surface Engineering, Protection of Metals from Corrosion and Erosion, Nanocomposites
Ph.D. Candidates	6 Registered (1 Completed, 2 Near Completion, 3 Recently Registered)
M.Tech. Thesis	45 Completed
Industrial Project	1 Ongoing
FDPs Attended	11
Books Published	2

8. Major Publications during last five years (Since Year 2018)

- I. Goyal, K., Singh, D., Singh, H. and Singh, C., 2023. High temperature corrosion behaviour of ZrO₂ reinforced Cr₂O₃ composite coatings in molten salt environment. *Anti-Corrosion Methods and Materials*, 70(4), pp.189-196. **SCI (I.F.=1.2), SCOPUS, WoS.**
- II. Kumar, R., Goyal, K. and Bhandari, D., 2023. Slurry Erosion Behavior of Thermally Sprayed Nano YSZ Reinforced WC-10Co-4Cr Ceramic Nanocomposite Coatings. *Tribology Transactions*, 66(1), pp.47-58. **SCI (I.F.=2.1), SCOPUS, WoS.**
- III. Singh, M., Bhandari, D. and Goyal, K., 2022. Corrosion behavior of Al/TiO₂/Y₂O₃ hybrid nanocomposites manufactured using the vacuum-assisted stir casting route. *Anti-Corrosion Methods and Materials*, 66(4), pp.394-402. **SCI (I.F.=1.043), SCOPUS, WoS.**
- IV. Singh, M., Goyal, K. and Bhandari, D., 2022. Dry sliding wear analysis of vacuum die-casted hybrid aluminum nanocomposites using the DOE Taguchi method. *International Journal of Applied Ceramic Technology*, 19(6), pp.3449-3460. **SCI (I.F.=2.328), SCOPUS, WoS.**
- V. Kumar, R., Goyal, K. and Bhandari, D., 2022. Slurry erosion behavior of thermally sprayed ceramic nanocomposite coatings on turbine steel. *International Journal of Applied Ceramic Technology*, 19(6), pp.3049-3061. **SCI (I.F.=2.328), SCOPUS, WoS.**
- VI. Singh, H., Goyal, K. and Rana, J.P.S., 2022. Effect of post-weld heat treatment on the metallurgical studies of dissimilar weldments of SS 316L welded with DSS 2205. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 237(8), pp.1834-1843. **SCI (I.F.=1.758), SCOPUS, WoS.**
- VII. Singh, A., Goyal, K., Goyal, R. and Krishan, B., 2021. Hot corrosion behaviour of different ceramics coatings on boiler tube steel at 800 °C temperature. *Journal of Bio-and Tribo-Corrosion*, 7(21), pp.1-9. **eSCI, SCOPUS, WoS.**
- VIII. Goyal, K., Singh, H. and Bhatia, R., 2020. Behaviour of carbon nanotubes-Cr₂O₃ thermal barrier coatings in actual boiler. *Surface Engineering*, 36(2), pp.124-134. **SCI (I.F.=2.8), SCOPUS, WoS.**
- IX. Singh, V., Goyal, K. and Goyal, R., 2019. Improving the hot corrosion resistance of boiler tube steels by detonation gun sprayed coatings in actual boiler of thermal power plant. *Anti-Corrosion Methods and Materials*, 66(4), pp.394-402. **SCI (I.F.=1.2), SCOPUS, WoS.**
- X. Goyal, K. and Goyal, R., 2020. Improving hot corrosion resistance of Cr₃C₂-20NiCr coatings with CNT reinforcements. *Surface Engineering*, 36(11), pp.1200-1209. **SCI (I.F.=2.8), SCOPUS, WoS.**
- XI. Goyal, K., Singh, H. and Bhatia, R., 2019. Hot-corrosion behavior of Cr₂O₃-CNT-coated ASTM-SA213-T22 steel in a molten salt environment at 700° C. *International Journal of Minerals, Metallurgy, and Materials*, 26, pp.337-344. **SCI (I.F.=4.8), SCOPUS, WoS.**
- XII. Goyal, K., Singh, H. and Bhatia, R., 2018. Cyclic high temperature corrosion studies of carbon nanotubes-Cr₂O₃ composite coatings on boiler steel at 900 C in molten salt environment. *Anti-Corrosion Methods and Materials*, 65(6), pp.646-657. **SCI (I.F.=1.043), SCOPUS, WoS**
- XIII. Goyal, K., 2019. Mechanical properties and erosive behaviour of 10TiO₂-Cr₂O₃ coated CA6NM turbine steel under accelerated conditions. *World Journal of Engineering*, 16(1), pp.64-70. **eSCI (I.F.=1.9), SCOPUS, WoS.**
- XIV. Goyal, K., Singh, H. and Bhatia, R., 2018. Hot corrosion behaviour of carbon nanotubes reinforced chromium oxide composite coatings at elevated temperature. *Materials Research Express*, 5(11), pp.1-12. **SCI (I.F.=2.025), SCOPUS**
- XV. Goyal, K., 2018. Effect of variation of chromium oxide on the properties and slurry erosion behaviour of aluminium oxide-based composite coatings on turbine steel under simulated conditions. *International Journal of Materials Engineering Innovation*, 9(4), pp.291-306. **eSCI, SCOPUS, WoS.**
- XVI. Goyal, K., Singh, H. and Bhatia, R., 2019. Experimental investigations of carbon nanotubes reinforcement on properties of ceramic-based composite coating. *Journal of the Australian Ceramic Society*, 55(2), pp.315-322. **SCI (I.F.=1.741), SCOPUS, WoS.**

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