


Yadavindra College of Engineering

Punjabi University Guru Kashi Campus

Talwandi Sabo

FACULTY ACADEMIC PROFILE

Name	Dr. GAGANDEEP KAUSHAL			
Designation	Assistant Professor			
Department/ Section/ Subject	Mechanical Engineering Section, Yadavindra College of Engineering			
Official Address	Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo (Distt. Bathinda) Punjab India - 151302			
Contact No. (s)	+91-9872705486			
Email (s)	gagankaushal@pbi.ac.in			
Thrust Areas/ Research Interests	1. Surface Engineering; Additive Manufacturing 2. Manufacturing Engineering 3. Production Engineering			
Subjects Taught	Theory of Machines; Manufacturing Science, Manufacturing Processes, Non-Traditional Machining; Fluid Mechanics, Basic Thermodynamics, Materials Technology, Non Conventional Energy Resources, Management of Prod Systems, Welding Technology, Machine Design I & II, Elements of Mechanical Engg			
Total Experience (Years)		Teaching Experience		Industry Experience
Employment History	1. 01/11/12(A.N.) till date Punjabi University, Patiala 2. 07/09/2005 to 01/11/2012 RIMT IET Mandi Gobindgarh 3. 17/08/2004 to 02/09/2005 SLIET Longowal 4. 13/09/2000 to 30/11/2001 Cephram Milk Spl Derabassi			
Membership of Punjabi University Academic Bodies	1. 2. 3.			
Administrative/ Academic Duties performed.	Class coordinator, Lab In-charge, Member, admission Committee, Supdt Exams, Deputy Supdt Exams, Class Counsellor			

ACADEMIC QUALIFICATIONS

Degree	Degree Name	Thesis Title	University
PhD	PhD	Erosion-Corrosion Studies on High-Velocity Oxy-Fuel Thermal Spray Coatings over Some Boiler Steels	PTU KAPURTHALA
Post-Graduation	MTech	<i>DEVELOPMENT OF AN EXPERIMENTAL SETUP FOR MAGNETIC ABRASIVE MACHINING OF EXTERNAL SURFACE</i>	PTU KAPURTHALA
Graduation	BTech	---	PTU KAPURTHALA
Any other	Diploma in Prod & Indl Engineering		PSBTE&INDL TRG

FACULTY RESEARCH PROFILE

Google Scholar ID	GAGAN KAUSHAL		
Impact Factor		Citation Index	123
h-Index	7	I10-index	5
SNIP		SJR	
No. of Candidates (Completed PhD)	2	No. of Candidates (Ongoing PhD)	2
PG Thesis guided	19	PG Thesis Ongoing	
Research Projects Completed		Research Projects Ongoing	
Research Projects Submitted			
Research Grant received			
Names of Foreign Countries Visited for Academic Purpose	7		
Papers in International Journals		Papers in National Journals	
Papers in International Conferences		Papers in National Conferences	2

International Conferences Attended	11	National Conferences Attended	
Books Published as Single Author		Books Published as Joint Author	
Edited Books		Book Chapters	1
International Conferences/ Workshops/ Seminars /STCs/ FDPs organized	5	National Conferences/ Workshops/ Seminars/ STCs/ FDPs organized	3
Total International Conferences/ Workshops/ Seminars /STCs/ FDPs attended	15	Total National Conferences/ Workshops/ Seminars/ STCs/ FDPs attended	
Memberships of International Professional Bodies	1	Memberships of National Professional Bodies	
Total International Medals/ Awards/ Honors/ Scholarships Received	Best paper award AFTMM E 2014	Total National Medals/ Awards/ Honors/ Scholarships Received	Travel grants received four times
Editor/ Reviewer of International Journals	yes	Editor/ Reviewer of National Journals	yes
Session Chair/Invited Talks/Seminars/Expert Lecture in International Conferences	3	Session Chair/Invited Talks/Seminars/ Expert Lecture in National Conferences	2

PHD SUPERVISION DETAILS

Sr.	Candidate Name	Registration No.	University
Completed			
1	Sachpreet Singh	1206011	PTU KAPURTHALA
2	Mithlesh Sharma	1306005	PTU KAPURTHALA
Ongoing			
1	Rajan Verma		PUNJABI UNIVERSITY
2	Gurdip Singh		PUNJABI UNIVERSITY

LIST OF SCI JOURNAL PUBLICATIONS

Sr.	Title	Journal	Year of Publication
1	Surface Engineering, by Detonation-Gun Spray Coating, of 347H Boiler Steel to Enhance its High Temperature Corrosion	Materials at High Temperature	2011

	Resistance”,		
2	Comparative High Temperature Analysis of HVOF Sprayed and Detonation Gun Sprayed Ni-20Cr Coating in Laboratory and Actual Boiler Environments	Oxidation of Metals	2011
3	High Temperature Corrosion Behavior of HVOF- Sprayed Ni-20Cr Coating on Boiler Steel in Molten Salt Environment at 900°C	International Journal of Surface Science And Engineering	2011
4	High Temperature Erosion-Corrosion Performance of HVOF Sprayed Ni-20 Cr Coating in Actual Boiler Environment	Metallurgical and Materials Transactions. A	2011
5	Performance of Detonation Gun Sprayed Ni-20Cr Coating on ASTM A213 TP347H Steel in A Boiler Environment”,	J. Thermal Spray Technol.,	2012
6	Effect of Zirconium addition in HVOF-sprayed Ni-20Cr Coating”,	Surf. Eng.,	2013
7	Comparative High Temperature Corrosion Behaviour of Ni-20Cr Coatings on T22 Boiler Steel Produced by HVOF, D-Gun and Cold Spraying”,	Metall. Mater. Trans. A,	2014
8	Micro-structural and tribological assessment of HVOF sprayed coating by Co alterations for wear applications	Material Research Express	2019
9	Laser texturing as an alternative to grit blasting for improved coating adhesion on AZ91D magnesium alloy	Transactions of the IMF	2019
10	Tribological Investigations of HVOF Sprayed Coated Turbine Steel under Varied Operating Conditions	Materials Today Proceedings	2020

LIST OF NON-SCI JOURNAL PUBLICATIONS

Sr.	Title	Journal	Year of Publication
1	Oxidation Behavior of D-Gun Spray Ni-20Cr Coated ASTM A213 347H Steel at 900°C”,	Inter, J. Surf. Eng. Mater. Technol.,	2012
2	Performance of D-gun sprayed Cr3C2+NiCr coating on turbine steel in simulated erosive environment,	Inter, J. Surf. Eng. Mater. Technol.,	2013
3	Some Studies On D-Gun Sprayed Astm Sae213 T22	Asian Review of Mechanical Engineering	2013

	Steel For High Temperature Applications” ,		
4	Corrosion studies on HVOF sprayed Ni-20Cr and Ni-50Cr coatings on ASTM A213 TP347H boiler steel at 700oC	Asian Review of Mechanical Engineering	2013
5	Development and evaluation of mechanical properties of Aluminium based alloy with addition of 4% Alumina Al ₂ O ₃	Inter, J. Surf. Eng. Mater. Technol.,	2014
6	Development of Magnetic Abrasive Finishing Process to Finish Brass Rods	Asian Review of Mechanical Engineering	2014
7	Study on Magnetic Abrasive Finishing of Brass Rods Using SiC-Based Abrasives	Asian Review of Mechanical Engineering	2014
8	Development and characterization of Aluminium Based Matrix using 5% Flyash	Asian Journal of Engineering and Applied Technology	2014
8	Studies of D-gun sprayed Cr ₃ C ₂ +25 NiCr coating on turbine steel in a simulated erosive environment at 30° and 90° impact angles	International Journal of Manufacturing Science And Engineering	2015
9	Effect of Sic Abrasive on Finishing of Aluminium pipes during Magnetic Abrasive Machining	International Journal of Manufacturing Science And Engineering	2015
10	Study on Process parameters of Magnetic Abrasive Finishing on Aluminium alloy tubes	International Journal of Mechanical Engineering And Materials Science	2015
11	Oxidation behaviour of D-gun sprayed WC-12Co and Cr ₃ C ₂ -25NiCr on ASTM SAE 213 T22 steel	International Journal of Mechanical Engineering And Materials Science	2015
12	Characterisation of as-sprayed Inconel-625 coating deposited by high velocity oxy-fuel (HVOF) process on boiler steel	International Journal of Latest Trends in Engineering and Technology	2017
13	Characterization of as-sprayed stellite-6 coating deposited by d-gun spray process for perspective wear application	International Journal of Latest Trends in Engineering and Technology	2017
	Numerical Investigation of Slurry Erosive Wear Due to Multiple Particle Impact	Asian Journal of Engineering and Applied Technology	2018
15	Laser Texturing as Substrate Preparation Technique for Improved Corrosion Performance on WC-Co HVOF Coatings on AZ91D	Asian Journal of Engineering and Applied Technology	2018

LIST OF CONFERENCE PUBLICATIONS

20+