BIO-DATA

Name : Dr. Harvinder Singh
Designation : Associate Professor

3. Department : Department of Mechanical

Engineering

4. Date of Birth : 25 - 04 - 1974

5. Address for Correspondence : # 193,Street No. 4, Gen. Harbax

Enclave (Karheri), Opposite Punjabi

Photograph

University, Patiala (Pb.)

Pin-147002

Mobile : 9501034286

E-mail : harvidhaliwal @ yahoo.co.in

6 Areas of Specialisation : Manufacturing and Non - Traditional Machining

7. Academic Qualifications:

Sr.	Degree	Year	Board/Univ./	% of	Div.	Subjects Taken	
no.	Held		Inst.	marks			
1	Matric	1990	PSEB,Mohali	73.62	1st	General subjects	
2	Diploma	1994	SLIET,	74.69	1st	Mech. Engineering subjects	
	(Mech.)		Longowal				
3	BE	1997	PTU Jalandhar/	69.02	1st	Mech. Engineering subjects	
	(Mechanical)		SLIET,				
			Longowal				
4	ME	2004	PTU Jalandhar/	65.16	1st	Mech. Engineering subjects	
	(Mechanical)		SLIET,				
			Longowal				
5	Phd	29/11/20	Punjabi			Effect of different wire	
		21	University,Patial			electrodes on machining	
			a			performance of Nickel-based	
						alloy with wire electrical	
						discharge machining	

8. Membership of Professional Bodies/Organisations i) Life member of the Indian society for technical education

9. Details of Experience:

Appointments held prior to joining this institution

Designation	Name of Employer	Date o	f Joining	Salary with	Reason for
_		Joining	Leaving	Grade	Leaving
Senior	SUSCET, Tangori	1/8/2007	17/8/2009	8000-275-	Selection at
Lecturer				13500	Punjabi
					University, Patiala
Lecturer	SUSCET, Tangori	3/8/2004	31/7/2007	8000-275-	Promotion
				13500	
Senior	International	15/6/2000	6/6/2001	15000/-	Resignation
Engineer	Tractor Ltd.			(Consolidated)	
_	Hoshiarpur				
Engineer	Standard	Jan.1998	June 2001	6000/-	Better opportunity
_	Combines,			(Consolidated)	
	Handiaya				

Posts held after appointment at this institution:

Designation	Department	From	To	Grade
Assistant	Department of	18.08.2009	18.08.2014	Rs 8000-275-13500(Pre Revised)
Professor	Mechanical			Rs.15600-39100 with (G.P. 6000/)
(Grade-I)	Engineering,			(Revised Scale)
Assistant	Do	18.08.2014	18.08.2019	Rs.15600-39100 with (G.P. 7000/)
Professor				
(Grade-II)				
Assistant	Do	18.08.2019	18.08.2022	Rs.15600-39100 with (G.P. 8000/)
Professor				
(Grade-II)				
Associate	Do	18.08.2022	Till Date	
Professor				

10. Books :

~				
S.	Title	Authors	Publisher	
no.				
1.	A text book of Engineering	Amandeep Singh	University Science Press (An imprint	
	Material and Metallurgy	Wadhwa & Harvinder	of Laxmi Publications Pvt.Ltd.)	
		Singh Dhaliwal	(ISBN9788131803578)	
2.	Modern's abc of Elements	Harmesh Kumar	Modern Publishers, Jalandhar	
	of Mechanical Engineering	Kansal & Harvinder	(EAN9788177240795)	
		Singh Dhaliwal		
3.	Modern approach to	Harvinder Singh	Modern Publishers, Jalandhar	
	Workshop Technology-II,	Dhaliwal & Amandeep	(ISBN9789351841265)	
		Singh Wadhwa		
4.	Surface roughness	Amandeep Singh	LAP LAMBERT Aacademic	
	prediction of Aluninium	Wadhwa & Harvinder	Publishing ,Mauritius	
	6063 in CNC turning by	Singh Dhaliwal	(ISBN978-620-2-01752-7)	
	RSM			

11. M.Phil./M.Tech Students guided

S.	Name of	Title of Thesis	Year of
No.	the Student		Completion
1.	Harseerat	Invetigating high temperature corrosion behaviour of	2022
	Singh	thermally sprayed composite coatings on T-91boiler steel at an elevated temperature	
2.	Gursewak	Investigation of SR & WWR for WEDM of annealed	2022
	Singh	Nimonic 75 using RSM	
3.	Gagandeep	Mathematical modelling of the effect of input parameters on	2022
	Singh	the MRE and KW during WEDM of annealed Nimonic 75	
4.	Jaskirat	To study the implementation of 5S in northern Indian	2022
	Singh	manufacturing industries	
5.	Jatinder	High temperature corrosion behaviour of ZrO ₂ reinforced	2021
	Singh	Cr ₂ O ₃ coatings in molten salt environment	
6.	Jatinder Pal	Developing welding procedure for dissimilar welding of	2020
	Singh Rana	AISI316L & DSS2205 to improve mechanical properties	
7.	Manjinder	Characterization of performance features for WEDM of	2019
	Kaur	Nimonic 90 at different discharge energy	
8	Pawan	A study of WEDM parameters with one factor at a time	Jan. 2019
	Kumar	technique	
9	Gurpreet	Optimization of process parameters for surface roughness and	Sept. 2018
	Dhaliwal	analysis of machined surface in WEDM of Nimonic 75	

10	Dharmbir	Study, analysis & simulation of horizontal light pipe system	Aug. 2018
	Singh	with laser cut for daylight system	
11	Karanvir Sharma	Study, analysis & experimentation of new designed Fresnel lens for daylight system using optical fiber	Aug. 2018
12	Hitesh	Study, analysis & optimization of Fresnelized dome as	Aug. 2018
	Sharma	passive daylight collector	
13	Kalbir Singh	Compositional modification of thresher's spike as sprayed by	March 2018
	8	D-gun process for perspective wear based applications	
14	Sandeep	Hot corrosion behaviour of HVOF coated T-11 steel in high	Sept. 2017
	Singh	temperature environment	1
15	Jatinder	An experimental investigation on tool wear and surface	Sept.2017
	kumar	roughness in CNC turning of particulate SiC reinforced metal	1
		matrix composite	
16	Kartik	Prediction of surface roughness in CNC turning of Al 6063	Aug. 2017
		using RSM	C
17	Vishal	Optimization of process parameters for WEDM of	May 2017
		Nimonic75 using RSM and GRA	·
18	Hemant	Study, analysis & experimentation of weight in motion	Sept. 2016
	kumar	(Railway) using fiber Bragg grating sensor	
19	Rajdeep	Experimental investigation of EDM of cobalt based alloy	Aug. 2016
	Singh	satellite 6	
20	Lakhwi nder	A comparative study on mechanical properties and	Sept. 2015
	Singh	microstructural behaviour of SS304 welds using A-TIG &	
		MIG welding processes	
21	Atinderjit	To study the effect of welding parameters on weld bead	Aug. 2015
	Singh	geometry using A-TIG welding	
22	Kamaldeep	To study the effect of activating fluxes on bead	July 2015
	Singh	characteristics using TIG welding	
23	Major Singh	Parametric optimization of EDM of Al/SiCp-MMC by RSM	Nov. 2014
24	Manninder	MRR & electrode wear rate study on EDM of Al/SiCp-MMC	Nov. 2014
	Sidhu		
25	Jagdeep	Optimization and mathematically modelling of WEDM for	July 2014
	Sharma	the fabrication of micro-channels through RSM and GA	~
26	Manjinder	The optimization of wheel manufacturing process	Sept.2013
	Singh	experimentally by using Taghuchi methodology	
27	Parminder	To investigate the performance of cryotreated HSS T42 tool	July 2012
20	Singh	bits in dry turning of EN8 by applying Taguchi method	T 1 2012
28	Manpreet	Effect of hardfacing using SMAW on stainless steel	July 2012
20	Sidhu	properties	T 1 2012
29	Navdeep	Effect of hardfacing on mild steel properties using electric arc	July 2012
20	Singh	welding	T 1 2012
30	Ramandeep	Analytical study of the perspectives for implementation of	July 2012
	Singh	ERP: A study of selected manufacturing industries	

12. List of Papers/Courses taught at P.G. and U.G. Level

S. No.	Paper	Class
1.	Theory of Machines	U.G.
2.	Manufacturing Technology	U.G.
3.	Basic Thermodynamics	U.G.
4.	Non Conventional machining processes	P.G.
5.	Welding Technology	U.G. &P.G.

13. Technical Proficiency

- Organised International Conference on Recent Developments in Mechanical Engineering on 23-25 January 2008 at SUSCET, Tangori (MOHALI).
- Organised National Conference on Futuristic Trends in Mechanical Engineering on 13-14 Sept. 2007 at SUSCET, Tangori (MOHALI).
- Developed Experimental Setup for Powder Mixed Electric Discharge machining in 2004 at SLIET, Longowal.
- Proficient in operation and programming on CNC turning center and CNC Universal milling machine.
- Member of team who got approval of combine harvester (Sonalika) from ministry of agriculture affairs at Budni, 2001.
- Developed mathematical models for MRE, KW, Ra, & WWR during WEDM of Nimonic 75 alloy, 2019

14.List of Papers Published

Khushdeep Goyal, Davinder Singh, Harvinder Singh, Charnjit Singh, "High temperature corrosion behaviour of ZrO₂ reinforced Cr₂O₃ composite coatings in molten salt environment", Anticorrosion methods and materials, 70/4, pp 189-196, 2023 Davinder Singh, Khushdeep Goyal, Charnjit Singh, Harvinder Singh, "Effect of Y2O3 2 reinforcement on hot corrosion of Cr₂O₃-based composite coatings at elevated temperature", Journal of bio and tribo-corrosion, 9:52,2023. Harvinder Singh, Vinod Kumar, Jatinder Kapoor, "Multi-response optimization of WEDM process parameters during the fabrication of microchannels for industrial applications", Materials Today: Proceedings 46 (2021) 81-88. 4 Harvinder Singh, Vinod Kumar, Jatinder Kapoor, "Modelling process parameters and morphology of wear out brass wire surface during WEDM of Nimonic75 alloy", Materials Today: Proceedings 56 (2022) 2048–2057 Harvinder Singh, Vinod Kumar, Jatinder Kapoor, "Optimization of WEDM process parameters in machining Nimonic 75 alloy using brass wire", Multidiscipline Modeling in Materials and Structures (2020). Harvinder Singh, Vinod Kumar, Jatinder Kapoor, "Effect of WEDM process parameters on machinability of Nimonic75 alloy using brass wire", World Journal of Engineering (2019) 7 Harvinder Singh, Vinod Kumar, Jatinder Kapoor, "Modelling of WEDM parameters and surface integrity characteristics in the machining of Nimonic75 alloy", Materials Today: Proceedings. Harvinder Singh, Khushdeep Goyal, jatinder Pal Rana, "Effect of post-weld Heat treatment on the metallurgical studies of dissimilar weldments of SS316L welded with DSS 2205", Proceedings of institute of mechanical Engineers, Part C: Journal of Mechanical Engineering Science (2022). Sarpreet Singh, Harvinder Singh, "Review of wire electric discharge machining (WEDM) of Nimonic alloys of different grades", Journal of emerging trends in engineering, science & technology Vol.4, No.1, 2016. Taranveer Singh, Harvinder Singh, "Review of wire EDM process on titanium alloys", Journal 10

of emerging trends in engineering, science & technology, Vol.4, No.1, 2016

11	Jasvir Singh, Harvinder Singh, Gagandeep Singh "Optimization of Machining Parameters during
	CNC turning of Aluminium 6061 with CNMG EN-TM (H20TI) insert using Response Surface
	Methodology", IJEDR, Vol. 4, Issue 1,2016
12	Lovdeep Singh, Charnjit Singh, Khushdeep, goyal, Harvinder Singh, "Experimental Investigation
	of Properties of Friction Stir Welded Butt Joints of Dissimilar Aluminium Alloys 6061 and
	6082', Journal of modern chemistry & chemical technology, Vol.8, Issue 3, 2017.
13	Dharmbir Singh, Harry Garg, Harvinder Singh, "Various Daylighting Systems for Energy
	Conservation: A Review", An international journal of engineering sciences, Vol.30, 2018.
14	Dharmbir Singh, Harry Garg, Harvinder Singh, "Study and analysis of horizontal light pipe with
	laser cut panel for daylighting system", An international journal of engineering sciences, Vol.30,
	2018.
15	Hitesh Sharma, Harvinder Singh, Harry Garg, "Study and Analysis of Fresnelized Dome",
	international journal of engineering sciences, Vol.30, 2018.
16	Harvindert Singh, "Studies the effect of Iron based hardfacing electrodes on stainless steel
	properties using shielded metal arc welding process", International journal of research in advent
	technology, Vol.2, No. 4, pp 419-430, 2014.
17	Ramandeep Singh, Chandan Deep Singh, Harvinder Singh, "Analytical study of the perspectives
	for implementation of ERP", International Journal of mechanical engineering & robotic research,
	Vol.1, No.3,2012
18	Harvinder Singh, Sukhjinder Singh, Arun Kumar, "Studies the effect on wear and dilution of Iron
	based hardfacing electrodes on mild steels using SMAW process", International conference on
	advancemens & futuristic trends in mechanical and materials engineering,pp 552-556, 2013.

Harvinder Singh (Signature of the Teacher)