

RESUME

PERSONNEL DETAIL

Name in full (In block letters) : PARDEEP KUMAR SOOD

Post Held : ASSOCIATE PROFESSOR,
(WORKSHOP SUPERINTENDENCE)

Father's Name : Late SH. VIJAY KUMAR SOOD

Nationality : INDIAN

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EDUCATIONAL AND PROFESSIONAL QUALIFICATION

(Starting with the highest)

Degree awarded/ Examination passed	University/ Board	Year of Passing	%age of marks obtained/CGPA	Subject (s)
Doctorate Degree (Ph.D)	NIT, Hamirpur	2012		Manufacturing Processes
PG (M.Tech)	University of Rorkee (IIT)	1990	78.7%	ME (Production and Industrial System Engg.)
Graduation (B.Tech.)	APS University Rewa (MP)	1983	68%	Mechanical Engg.
SSC/10+2 (Higher Secondary part-II)	HPBSE Shimla	1977	75.3%	Science
Matric (Higher Secondary part-I)	HPBSE Shimla	1976	73.5%	Science

PROFESSIONAL EXPERIENCE

Name of the Employer	Designation of the post and duration of employment period	Salary drawn at the time of leaving basic pay + allowance	Brief description of duties	Reason of leaving
NIT, Hamirpur (HP)	Workshop Supdtt. (15/09/1994 to till date)	54570 Basic + AGP 9000 in scale 37400-67000	Workshop Administration and teaching work	Still working
NIT, Hamirpur (HP)	Lecturer, Mechanical Engg. Department (23/06/1987 to 14/09/1994)	Rs. 8000-13500	Teaching	Placed as workshop Supdtt.
HPPWD	Graduate J.E. (May 1985 to August 1996)	Daily Wages	Vehicle Maintenance	Appointment in REC
HPSEB Mandi	Graduate J.E. (July 1983 to May 1984)	Design	Design	-----

ADMINISTRATIVE RESPONSIBILITIES HELD

Sr. No.	From	To	Position held	Contribution
1.	August, 87	June, 88	Resident Warden of boys hostel at Baru	To Look after day to day hostel work
2.	August, 94	May, 98	Controlling Officer Vehicles	Smooth and economical running of all vehicles.
3.	June, 96	June 98	Proctor	Maintained discipline and steps taken for the welfare of students.
4.	April, 2000	August, 2002	Chief Warden	Provision of Ambulance, Hot water facility in all hostels, Arranged advanced facilities for comfortable stay in all hostel. Improvement in mess system and workers salary. Provision of washing machines in PGH.
5.	Feb, 2006	Feb, 2008	Coordinator Services at Community	Arranged 39 Nos. STTP & Workshops from different departments for organized and unorganized sectors.
6.	Dec, 2014	Till date	Programme Officer National Service Scheme	Started functioning of sanctioned NSS unit in Feb 2013 from march 2015
7.	July, 2015	Till date	Co-Ordinator (Security)	Smooth functioning of NIT, security services.
8.	September 2015	Till date	Incharge Central Workshop	Over all academic, administrative and functional control of Central Workshop

9.	Oct, 2015	Till date	Nodal Officer Skill India	Organize skill development programmes for youths
10.	November 2015	Till Date	Co-ordinator Unnat Bharat Abhiyan	Adopted village under UBA and action plan prepared for adopted village.

SUBJECTS TAUGHT (August 2004 to till Date)

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|-------|--------------------------------|------------|
| i) | Workshop Practice -I | WP 111 |
| ii) | Workshop Practice -II | WP 122 |
| iii) | Manufacturing Process (P) | ME 233 |
| iv) | Machine Drawing | ME 213 |
| v) | Manufacturing Process Lab | ME (P) 236 |
| vi) | Welding Technology | ME 424 |
| vii) | Product Design and Development | ME 627 |
| viii) | Non-Conventional Machining | ME 243 |
| ix) | Manufacturing Process-I | MED-213 |
| x) | Manufacturing Process-II | MED-223 |
| xi) | Manufacturing Process-I | ME-212 |
| xii) | Manufacturing Process-II | ME-223 |
| xiii) | Manufacturing Process-I (Lab) | MED-118 |
| xiii) | Manufacturing Process-II (Lab) | MED-228 |

DETAILS OF CO-CURRICULAR AND EXTRA – CURRICULAR ACTIVITIES

Remained member of Senate NIT, Hamirpur, and Member board of studies HPU, Paper Setter for HP Technical Board, Paper setter for UP Technical Board, Paper setter for Institution of Mechanical Engineering, Member of various organizing committee for National & International Conferences organized at NIT, Hamirpur. In the expert panel for selection of Technical staff of NIT, Kurukshetra. Acted as expert for selection of Workshop Suptt. and lecturers at HPPSC, Shimla. Acted as technical expert in HP Subordinate board Hamirpur. Executive Member the local organizing committee for organizing 55th Congress of Indian Society of Theoretical and Applied Mechanics held from 18th- 21st December, 2011. Member of committee made by Himachal Pradesh Technical University, Hamirpur, (HP) for inspection of colleges. Member of interview board technical staff 2014, Chairman review committee for various technical posts in NIT, Hamirpur, 2014. Member Selection Committee for drivers, July-2015.

WORKSHOP / STTP ORGANIZED

Sr. No.	Workshop/STTP	Organizing Deptt/ Central Workshop	Date
1	Welding Processes (Arc & Gas Welding)	Central Workshop	20 th – 24 th Dec, 2004
2.	Application of Wood Working Machining Processes	Central Workshop	16 th – 20 th May, 2005
3.	Awareness Workshop on Services to Community	Central Workshop	25 th – 30 th May, 2005
4.	Machining Processes	Central Workshop	16 th – 20 th Dec, 2005
5.	Workshop on Use of Power Operated Hand Tools	Central Workshop	25 th -26 th Mar, 2006
6.	Awareness Workshop for Panchayat Pradhans	Community Services	28 th Apr, 2006
7.	Plumbing and Pipe Fitting	Central Workshop	22 nd – 26 th May, 2006
8.	Use of Power Operated Tools in Metal Working	Central Workshop	11 th -15 th Dec, 2006
9.	Application of Forging Processes	Central Workshop	19 th -23 rd Dec, 2006
10.	Workshop for Entrepreneurship on Self Employment in Technical Field	Central Workshop	24 th Feb, 2007
11	Repair and Maintenance of Wood and Steel Furniture	Central Workshop	14 th -18 th Dec, 2009
12	Application of Power Operated Tool (Metal Cutting & Wood Working)	Central Workshop	5 th -9 th July, 2010
13	Short Term Training Programme for ITI Instructors on Fitter/Turner	Central Workshop	30 th June,2014-5 th July 2014
14	STTP on Advance Welding Processes for ITI Instructors on Machinist/Tool & Die Maker	Central Workshop	7 th July,2014-12 th July 2014
15	Short Term Training Programme on “Quality Management Systems (QMS) issues tools and Implementation”.	MED	10 th – 14 th July, 2015

SHORT TERM COURSE ATTENDED

Sr. No.	Name of Course/Workshop	Place and Sponsored by	Dates
1.	Summer school on “Product Development”.	IIT, Delhi, QIP	June 02-16,1992
2.	Summer School on “Metal Forming-Theory and Practical”.	Punjab Engg College Chandigarh, ISTE	June 06-18, 1994
3.	Summer School on “Direct Energy Conversion Devices”.	University of Roorkee QIP	June 21-July 05 1994
4.	Summer School on “New concepts and Methodology for Innovative Industry Institute Interaction.”	REC Hamirpur ISTE	July 07-12, 1997

5.	STTP “ Advances in Manufacturing System”.	NIT, Hamirpur (HP)	Dec, 23, 2002 to Jan 04, 2003
6.	STTP on “Melt Treatment in Foundry”.	NIT Hamirpur, (HP)	June 14-18, 2004
7.	STTP on “Web Designing”.	NIT, Hamirpur (HP)	Feb 28-March 04, 2005
8.	STTP on “Maintenance Management in Industries”.	NIT, Hamirpur (HP)	Dec 25-29, 2006
9.	STTP on “Fundamental of Tribology”.	NIT, Hamirpur (HP)	July 09-20, 2007
10.	STTP on “ Small Hydropower”.	NIT, Hamirpur (HP)	May 07-11, 2007
11.	STTP on “ Composite Materials for Mechanical and Civil Engineering”.	NIT, Hamirpur (HP)	June 30- July 11, 2008
12.	STTP on “ Welding for Fabrication and Repair in Hydel Power Industry”	IIT, Roorkee	Dec 20-23, 2008
13.	STTP on “Micro and Nano Composities”.	NIT, Hamirpur (HP)	28 Dec, 2009-01 Jan, 2010
14.	STTP on “Condition and Monitoring of Plant and Machinery”.	NIT, Hamirpur (HP)	June 21-25, 2010
15.	STTP on “Welding Technology and NDT Techniques”.	ESCI Campus Hyderabad	Sep, 24-27, 2013
16.	STTP on “ Visual Basic 6.0”	NIT Hamirpur & SPIC and NITTTR Chandigarh	Feb 18-19, 2014

SEMINARS/WORKSHOPS ATTENDED

Sr. No.	Name of Seminars/Workshop	Place and sponsored by	Dates
1.	Programme on, “Performance appraisal and Development systems”.	REC, Hamirpur ISTE	May 26-28, 1995
2.	National Seminar on “Power Scenario in India”	REC Hamirpur	Oct 14-15, 1995
3.	Induction training programme on “ Teaching Method”, NIT Hamirpur (HP)	NIT, Hamirpur (HP)	Jan 28-29, 2006
4.	National Conference on “Recent Developments and Futur Trends in Mechanical Engg”	NIT, Hamirpur (HP)	Nov 03- 04,2006
5.	One day workshop on Intellectual Property Right.	NIT, Hamirpur (HP)	May 06, 2007
6.	One day workshop on “Reservation of Schedule Cast, Schedule Tribes and other backward Classes.”	NIT, Hamirpur (HP)	June 15-16, 2007
7.	ISTE Sectional Annual convention	NIT, Hamirpur (HP)	Nov 18-19, 2007
8.	National Workshop on Plasma surface interaction and processing”.	NIT, Hamirpur (HP)	May 25-27, 2009

9.	Congress on Plasma Technology	NIT, Hamirpur (HP)	May 08-11, 2009
10.	55 th Congress on Indian Society of Oriental and Applied Mechanics	NIT, Hamirpur (HP)	Dec 18-21, 2010
11.	National Conference on “Advances in Polymer Science and Technology”.	NIT, Hamirpur (HP)	Oct 22-24, 2010
12.	Workshop on “Right to Information Act 2005”	HIPA Govt, NIT Hamirpur (HP)	Feb 26, 2011
13.	55 th Congress of Theoretical and Applied Mechanics (ISTAM-2010)	NIT, Hamirpur (HP)	Dec 18-21, 2011
14.	International Conference on Emerging Paradigms and Practices in Global & Business Issues.	NIT, Hamirpur (HP)	Dec 22-24, 2014

SPONSORED PROJECT UNDERTAKEN

Sr.No.	Project Title	Project Duration	Amount received on Rs. Lacs	Funding Agency
1	Modernization of Workshop Facility (Carpentry Shop)	1989-90	10.00	MHRD
2	Modernization of Workshop Facility (Machine Shop)	1991-92	10.00	MHRD
3	Modernization of Workshop Facility (Sheet Metal Shop)	1993-94	06.00	MHRD
4	Modernization of Workshop Facility (Machine Shop)	1994-95	10.00	MHRD
5	Modernization of Workshop Facility (Machine & CNC Shop)	1997-98	10.00	MHRD
6	Modernization of Workshop Facility (Foundry Shop)	1999-2000	10.00	MHRD
7	Modernization of Workshop Facility (Pattern Making Shop)	2000-2001	09.00	MHRD
8	Modernization of Workshop Facility (CNC Shop)	2003-2005	15.00	MHRD

LIST OF PUBLICATIONS OF DR. P.K. SOOD IN JOURNAL/CONFERENCE

Sr. No.	Topic	Journal/Conference	Dates
1.	Study on Chip formation mechanism in Machining (Al-Si-1.2Fe) Hypereutectic Aluminum alloy. In IPROMM 2009 (National Conference on Design and issues in Automotive and Allied Industries Manufacturing issues in Automobile and Allied Industries).	Organized by Indian Institute of Information Technology, Design and Manufacturing (IIITD & M) IIT Madras Campus, Chennai.	10 th -11 th July, 2009

2.	Analysis of surface roughness for CNC turning and optimization of cutting parameters for Hypereutectic Aluminum-Silicon Alloy.	In Twenty fifth National Convention of Mechanical Engg. Institution of Engineers, Delhi State Centre.	6 th -7 th Nov, 2009
3.	The influence of Beryllium addition on chip formation and surface roughness turning stir cast Hypoeutectic Al-Si alloy. In Nordtrib-2010	International Conference, held at Sweden Lulca Technical University, (LTU), Sweden	7 th -12 th June, 2010
4.	Integrating community services with technical education	ISTE annual conventional	18 th -19 th November,2010
5.	Development and Study of Dry Sliding Wear Characteristics of Hypereutectic Al-Si alloy	In CPIE-2010 held at NIT, Jalandhar	3 rd – 5 th December, 2010
6.	Optimization of cutting forces in Machining Hypereutectic Aluminium Silicon Alloy	In 55 th Congress of Indian Society of the oriental and Applied Mechanics NIT, Hamirpur	18 th -21 st December, 2010
7.	Role of Engineer in the Industry	EDP Journal	2010
8.	The effect if Beryllium (Be) and Cadmium (Cd) on stir cast hypoeutectic Aluminium alloys	Materials and Manufacturing Processes, Taylor & Francis	2011
9.	Optimization of Turning Parameters for Surface Roughness in CNC Turning	In I-manager Journal of Mechanical Engg.	January, 2011
10	Machnability Study of Stir Cast Hypoeutectic Aluminium Silicon Alloys during Turning	Published in Journal of Materials Engineering and Performance, ASM International (Springer)	July, 2012
11.	Taguchi Multiple Performance Characteristics Optimisation in Machining of AISI 4340 Steel using utility function	Published in the I-manager's Journal on Mechanical Engineering	January, 2015
12.	Modelling and Optimisation of Tool wear in Machining of EN24 Steel using Taguchi Approach	Journal of the Institution of Engineering's India Series C (Springer)	January, 2015
13	Machining Parameters Optimization of Titanium Alloy Using Response Surface Methodology and Particle Swarm Optimization Under Minimum Quantity Lubrication Environment.	Materials and Manufacturing Processes	2015
14	Optimization of Machining Parameters for Turning AISI 4340 Steel Using Taguchi Based Grey Relational Analysis	Indian Journal of Engineering & Materials Sciences	2015
15	Optimizing Multi Characteristics in Machining of AISI 4340 Steel Using Taguchi's Approach and Utility Concept	J. Inst. Eng. India Ser. C	2015

16	Experimental Investigation of Machining AISI 1040 Medium Carbon Steel Under Cryogenic Machining: A Comparison with Dry Machining.	J. Inst. Eng. India Ser. C	October– December 2015
17	Modeling And Optimization Of En 31 Steel For Tool Wear And Surface Roughness Using Taguchi Approach And Regression Analysis. 2014 NIT-MTMI International Conference on Emerging Paradigms and Practices in Global Technology	Management & Business Issues (International Conference)	December 22-24 , 2014
18	Optimization of machining parameters and cutting fluids during nano-fluid based minimum quantity lubrication turning of titanium alloy by using evolutionary techniques	Journal of Cleaner Production (ELSEVIER)	2016

B.TECH MINOR/MAJOR PROJECT SUPERVISION

Sr. No.	Name of Project	Year	Category
1.	Modification of a SI IC Engine to run on Ethanol and Hydrogen	Dec,2011	Minor
2.	Modifying an Internal combustion spark ignition engine to work on Alcohol and Hydrogen	May, 2011	Major
3.	Evaluation of Machinability for cast Hypereutectic Al-Si alloy by varying tool geometry (Nose Radius)	Dec, 2011	Minor
4.	Optimization of Machinability for cast Hypereutectic Al-Si alloy by using different tool material	May, 2012	Major
5.	Evaluation of Machinability (Cutting forces and surface roughness of cast hypoeutectic Aluminium-Silicon alloys (Al-7Si-0.5Mg-0.9Fe) using different tool Materials	Dec, 2012	Minor
6.	Optimization of cutting parameters of Hypereutectic Aluminium-Silicon alloys (Al-20Si-0.5Mg-1.2Fe) produced by conventional cast and stir cast by varying approach angle.	April, 2013	Major
7.	Evaluation of machinability (study of forces developed for different cutting parameters) of eutectic alloy (Al-12Si-0.5Mg) prepared by sand mould and metallic mould casting technique using PCD inserts.	Dec, 2013	Minor
8.	Optimization of cutting parameters for Al-Si Hypoeutectic cast alloy (Al-7.5Si-1.5Mg-1.2Fe) produced by conventional cast and stir cast using uncoated carbide tool	May, 2014	Major
9.	Study of the effects of Silicon carbide particulates concentration on mechanical	May, 2015	Minor & Major

properties, machining and wear parameters of Aluminium 7075matrix.		
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M.TECH THESIS SUPERVISION

Sr. No.	Name of the Candidate	Title	Year
1.	Mrinal Choudhary	Investigations on mechanical Machining and wear behaviour of Al/Sic AMC produced by stir casting.	2015
2.	Niranjan Kumar	Mechanical, Maching and wear behaviour of Al ₂ O ₃ reinforced AMCS prepared by Stir Casting	2015
3.	Shambhu Kumar	Study of Machining Behaviour of Hypereutectic Al-Si alloy	2016
4.	Shakti Singh	Study of Mechanical Properties and wear behaviour of Heat Treated Al-Si Aloys	2016
5.	Om Prakash Tiwari		Pursuing
6.	Rahul Jangar		Pursuing

Ph.D SUPERVISION

Sr. No.	Name of the Candidate	Year of Completion	Title of Thesis
1.	Mr. Munish Kumar Gupta	Regd in 2013	Investigations on Machining behaviour of high strength temperature resistant alloys under MOL environment
2.	Mr. Surender Kumar	Regd in 2014	Studies on Aluminium Matrix Hybrid Reinforced Composites

WORKSHOP TRAINING MANNUAL WRITING (CO-CONSULTANT)

1. Machine Shop Training Manual issued by Technical Study Ways Ludhiana (PB)
2. Foundry Shop Training Manual issued by Technical Study Ways Ludhiana (PB)