

PROFILE

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Present Address:

(A) Office: Associate Professor
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Educational Qualification:

Degree	Division / Grade	Year	Institute / University
B.Sc. Engineering (Production Engineering)	79% First class Distinction	1999	Regional Institute of Technology, Jamshedpur, India (Presently NIT Jamshedpur)
Ph.D.* (Mechanical Engineering)	-	March 2007	Maharshi Dayanand University, Rohtak, Haryana, India

*** Title of Ph.D. Thesis:**

“A Contribution to the Development of Knowledge-based System for Intelligent Design of Progressive Dies”

Teaching Experience:

Organization	Post held	Duration	Responsibilities
SV NIT Surat	Associate Professor (Present Post)	16-8-2007 onwards	Teaching of UG & PG subjects, Research & Administrative work
Hindu College of Engineering, Sonapat (Haryana)	Assistant Professor & Head	15-5-2007 to 14-8-2007	Teaching of UG subjects Research & Administrative work
Hindu College of Engineering, Sonapat (Haryana)	Lecturer	9-11-1999 to 14-5-2007	Teaching of UG subjects

Area of Research Interests:

- Applications of AI Techniques (KBS/ES/Intelligent System) to Sheet Metal Forming
- Press Tool Design
- Tool Design
- Automation in Manufacturing
- Flexible Manufacturing Systems
- Computer Aided Production Planning (CAPP)
- CAD

Research Publications:

- International Journals: 15
- National Journal: 04
- International Conferences: 18
- National Conferences: 10

(Kindly refer the List of Research Publications in Journals attached vide **Annexure – 1**)

Book Chapter: 01

Chapter: AI Applications to Metal Stamping Die Design, In: Artificial Intelligence: Approaches, Tools and Applications (ISBN 978-1-61324-019-9), Nova Science Publishers, New York, USA

Books Reviewed: 04 (Publisher - Tata-McGraw Hills, New Delhi, India)

M. Tech. Dissertation Guided: 08 + 05 (ongoing)

Ph.D. Guided: 04 (ongoing)

Expert Lectures delivered: 10

Research Project:

Funding Agency	Title of Project	Grants Sanctioned	Duration	Status
DST, New Delhi (Under Fast Track Scheme for young scientist)	Development of an intelligent system for selection of materials for press tool components	3,60000/-	2008-2011	completed

Membership:

- Life member of Indian Society of Mechanical Engineers, New Delhi, India
- Life member of International Association of Engineers (IAENG), Singapore.
- Life member of World Academy of Science, Engineering & Technology (WASET).

Workshop / Short Term Programmes Organized:

- National Workshop – 01
- Short Term Training programmes (AICTE sponsored) – 05
- National Conference (DST & CSIR sponsored) – 02
- Indo-US Collaboration in Engineering Education (IUCEE) FLI Course - 01

Administrative Experience at S. V. National Institute of Technology, Surat:

- Chief Hostel Warden during December 23, 2008 to September 15, 2011
- Member of Institute Discipline Committee during December 23, 2008 to September 15, 2011
- Member of Institute Purchase Committee during 2007-2011
- Senate Member during 2008-2011
- Professor-Incharge, Gardening, Institute beautification & Road Networking during 2007-2008
- Chairman, Institute Literary & Debate Committee during 2007-2008.

Visits abroad:

Place visited	Duration	Purpose
Leuven, Belgium	18/04/2011 to 22/04/2011	Participated in 14 th International Conference on Sheet Metal (SheMet-2011) organized by K.U. Leuven, Belgium. Presented one research paper.
Singapore	17/12/2010 to 22/12/2010	Participated in International Conference ICISE-2010 & ICIME-2010 organized by WASET (World Academy of Science, Engineering and Technology). Presented two research papers and chaired one session.
Paris, France	28-07-2010 to 02-08-2010	Participated in International Conference ICMAME – 2010 organized by WASET (World Academy of Science, Engineering and Technology). Presented one research paper
San Francisco, USA	20-10-2008 to 01-11-2008	Attended the International Conference on Intelligent Automation and Robotics ICIAR 2008, organized by the Int. Association of Engineers, Singapore and held at University of California, Berkeley, San Francisco, California, USA. Presented one research paper.
Las Vegas, USA	29-7-2006 to 7-8-2006	Attended the International Conference AMPT-2006 jointly organized by the Ohio University, Athens and University of Nevada, Las Vegas. Presented two research papers.
Dublin, Ireland	07-07-2003 to 14-7-2003	Attended the International Conference AMPT-2003 organized by the Dublin City University, Dublin. Presented one research paper.

Awards and Recognitions:

- Editorial Board Member of American Journal of Intelligent Systems
- Acting as REVIEWER of International Journals (published by Elsevier), National Journals and for various International & National Conferences.
- Topped throughout the academic career during studies and received merit scholarships by the State Govt. of Haryana.

Thank you
(Shailendra Kumar)

Encl: Annexure-1 Research Publication in International / National Journals

RESEARCH PUBLICATION IN JOURNALS***International Journals:***

1. S. Kumar and R. Singh, A low cost knowledge base system framework for progressive die design, *Journal of Material Processing Technology*, Vol.153-154, 2004, pp. 958-964.
2. S. Kumar and R. Singh, Trends and developments in intelligent computer aided design of progressive dies, *Journal of Advanced Materials Research*, Vol. 6-8, 2005, pp. 241-248.
3. S. Kumar and R. Singh, An intelligent system for selection of die-set of press tool for metal stampings, *Journal of Materials Processing Technology*, Vol. 164-165, 2005, pp. 1395-1401.
4. S. Kumar, R. Singh and G. S. Sekhon, CCKBS: A component check knowledge base system for accessing manufacturability of sheet metal parts, *Journal of Materials Processing Technology*, Vol. 172 (1), 2006, pp. 64-69.
5. S. Kumar and R. Singh, A knowledge-based system for selection of progressive die components, *Journal of Achievements in Materials and Manufacturing Engineering*, Vol. 20, 2007, pp.475-479.
6. S. Kumar and R. Singh, A short note on an intelligent system for selection of materials for progressive die components, *Journal of Materials Processing Technology*, Vol. 182, 2007, pp. 456-461.
7. S. Kumar and R. Singh, An intelligent system for modeling and material selection for progressive die components, *Key Engineering Materials*, Vol. 344, 2007, pp. 873 -880.
8. S. Kumar and R. Singh, An intelligent system for automatic modeling of progressive die, *Journal of Materials Processing Technology*, Vol. 194, 2007, pp. 176-183.
9. S. Kumar and R. Singh, A knowledge-based system to automate the selection of progressive die components, *International Journal of Materiel Science and Surface Engineering*, Vo. 1 (1), 2007, pp. 85-96.
10. S. Kumar and R. Singh, Automation of strip-layout design for sheet metal work on progressive die, *Journal of Materials Processing Technology*, Vol. 195, 2008, pp. 94 -100.
11. H. M. A. Hussein and S. Kumar, A Computerized Retrieval System for Sheet Metal Parts, *Asian International Journal of Science and Technology in Production and Manufacturing Engineering*, Volume 1, No. 2, July-December 2008, pp.31-40
12. S. Kumar, R. Singh and G. S. Sekhon, An Expert System for Design of Blanking Dies for Sheet Metal Operations, *Journal – Lecture Notes in Engineering and Computer Science (ISSN: 2078095)*, Vol. 2173, 2008, pp.699-704.

13. S. Kumar, An Intelligent System for Selection of Materials for Press Tool Components, *Journal of Engineering Research and Studies*, Vol. 2 (2), 2011, pp. 119-130.
14. S. Kumar and R. Singh, An Automated Design System for Progressive Die, *Expert Systems with Applications*, Vol. 38, 2011, pp. 4482-4489.
15. V. Naranje and S. Kumar, A Knowledge-Based System for Manufacturability Assessment of Deep Drawn Sheet Metal Parts, *Key Engineering Materials*, Vol. 473, 2011, pp. 749 -756.

National Journals:

1. Shailendra Kumar and Rajender Singh, An expert system for selection of piloting for sheet metal work on progressive die, *Journal of Scientific & Industrial Research*, JSIRAC (67) (10) 731-836 (2008), pp. 774-779.
2. Shailendra Kumar and Rajender Singh, An expert system for design of progressive die for use in sheet metal industries, *Journal of Scientific & Industrial Research*, Vol. 69, 2010, pp. 510-514.
3. Vishal Naranje and Shailendra Kumar, Design of deep drawing die: An expert system approach, *Journal of Manufacturing Engineering*, Vol.6 (2), 2011, pp. 99-105.
4. Vishal Naranje and Shailendra Kumar, An Expert System for Selection of Process Parameters of Deep Drawing Process, *Journal of Manufacturing Engineering*, Manuscript number JME-101121 (Accepted for Publication).