

Inderdeep Singh
Ph.D

Associate Professor,
Department of Mechanical & Industrial Engineering,
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Personal
Information

Date of Birth: 25th March, 1977
Nationality: Indian

Educational Details:

School/Institute	Board	Examination (Year)	Year
Indian Institute of Technology	IIT Delhi	Doctor of Philosophy	2004
Indian Institute of Technology	IIT Delhi	Master of Technology	2000
Regional Engineering College	REC Hamirpur	Bachelor of Technology	1998

Work Experience:

	Designation	Institute/University	From	To
1.	Associate Professor	Indian Institute of Technology Roorkee	October, 2012	Till Date
2.	Assistant Professor	Indian Institute of Technology Roorkee	May, 2008	October, 2012
3.	Lecturer	Indian Institute of Technology Roorkee	December, 2005	May, 2008
4.	Lecturer	Punjab Engineering College, Chandigarh	August, 2005	December, 2005
5	Lecturer	Institute of Technology, BHU, Varanasi	October, 2004	July, 2005

Total Work Experience

Seven years of experience in teaching and research

Research Interests

Primary and Secondary Processing of Composite Materials, Characterization of Composite Materials, Finite Element Approach in Design and Analysis of Composite Materials.

Courses Taught:

Graduate Level:

Product Design and Development

UG Level:

Manufacturing Techniques, Manufacturing Technology – II, Production Planning and Control, Industrial Management, Work System Design, Network Analysis, Value Engineering, Quality Management.

Academic Review Engagement

- a. **Member** (International Editorial Review Board), International Journal of Manufacturing, Materials and Mechanical Engineering (IGI Global)
- b. **Reviewer** in Composites Part B: Engineering (ELSEVIER)
- c. **Reviewer** in Journal of Composite Materials (SAGE)
- d. **Reviewer** in Journal of Thermoplastic Composite Materials (SAGE)
- e. **Reviewer** in Materials and Manufacturing Processes (TAYLOR & FRANCIS)
- f. **Reviewer** in International Journal of Mechanical Sciences (ELSEVIER)
- g. **Reviewer** in International Journal of Machining and Machinability of Materials (Inderscience)
- h. **Reviewer** in Optics and Lasers in Engineering (ELSEVIER)
- i. **Reviewer** in International Journal of Mechanical and Materials Engineering
- j. **Reviewer** in International Journal of Microstructure and Materials Properties (Inderscience)
- k. **Reviewer** in Journal of Manufacturing Engineers
- l. **Reviewer** in Indian Journal of Engineering and Materials Sciences (NISCAIR)
- m. **Reviewer** in International Journal of Materials Research (HANSER)

Administrative Responsibilities

At Institute/University Level:

1. Deputy Coordinator, Science and Technology Entrepreneurship Park (STEP), IIT Roorkee
2. Associated NCC Officer (ANO), 3 UK Composite Technical Regiment, NCC, IIT Roorkee
3. Staff Advisor (Football), Institute Sports Council, IIT Roorkee (2006-2008)
4. Staff Advisor (Hockey), Institute Sports Council, IIT Roorkee (2009 – till date)
5. Staff Advisor (Football), Institute Sports Council, IIT Roorkee (2011 – till date)
6. Member, Board of Studies (Mechanical Engineering), U.I.E.T., Panjab University, Chandigarh.
7. Chairman, Hockey (M), University Sports Board, BHU Varanasi (2004-2005)
8. Course Senior of Pre-Commission and Direct Commission Officer Cadets at OTA Kamptee.

At Department Level:

1. Deputy Coordinator (Workshop)
2. Member, Department Academic Studies Committee (DASC) 2008-2010.
3. Officer-in-Charge, Foundry and Heat Treatment Laboratory (2006-2009).
4. Officer-in-Charge, Machine and Fitting Shop (2009-till date)
5. Officer-in-Charge, CAE Laboratory (2010-till date)
6. Member, M.Tech Seminar and Project Evaluation Committee.

Awards/Honors/Recognition

1. Foundation for Innovation and Technology Transfer (FITT) award for ‘*Best Industry Relevant Doctoral Thesis of the Year*’ for the academic year 2004-2005
2. *1st Position* in the class of Mechanical Engineering of 1998 at REC Hamirpur
3. ‘*Outstanding Sportsperson of the Year – 2000*’ by Board of Sports Activities, IIT Delhi
4. ‘*Roll of Honor - 2004*’ by Vindhyachal House, IIT Delhi
5. ‘*Institute Blazer*’ for outstanding performance in field hockey at Inter-IIT sports meet held at IIT Bombay.
6. *2 Gold, 6 silver and 2 bronze medals* at Inter IIT Sports meets in hockey and football (1998-2003).
7. *Awarded C-certificate* in NCC by NCC Directorate, Chandigarh.
8. ‘*Commandant Appreciation Certificate*’ during PRCN-145 at Officer Training Academy, Kamptee.
9. *Third Position out of 75 Officer Cadets* in PRCN/SD/145 at NCC Officer’s Training Academy, Kamptee (Nagpur)
10. *Awarded ‘A’ GRADING* during REFRESHER COURSE (PRCN/SD/145), OTA, Kamptee
11. *Awarded ‘A’ GRADING* during CONVERSION COURSE at 3 UK CTR, IIT Roorkee
12. Won Silver medal in Football at 18th Inter IIT Staff Sports meet at IIT Delhi, 2010

Short Term / Special Courses Attended

1. 'Engineer's Coy Conversion Course' from 01-03-2010 to 01-04-2010, at 3 UK CTR, IIT Roorkee
2. 'Pre-Commission Course (PRCN/SD/145)' from 30-11-2009 to 27-02-2010 at Officers Training Academy (OTA), Kamptee (NAGPUR).
3. 'Search and Rescue Course' from 20-01-2010 to 23-01-2010 at National Civil Defence College, Nagpur.
4. AICTE Sponsored STC on 'Ultrasonic Nondestructive Evaluation of Composite Materials' from 03-10-2006 to 08-10-2006 at Indian Institute of Technology Kanpur
5. "Advanced Manufacturing Technology" in March 2005 at National Institute of Technical Teachers Training and Research, Chandigarh.
6. 'Design and Manufacturing of Composite Materials' from 06-12-2004 to 10-12-2004 at Indian Institute of Technology Guwahati.

Other Engagements

1. Recorded a series of 10 lectures on 'Composite Materials' to be telecast on DD Channel (Gyan Darshan)
2. Recorded a series of 35 lectures on "Manufacturing Processes" and "Industrial Engineering" in the NPTEL project of MHRD, Government of India.
(Available on www.youtube.com/prof.inderdeep)

PhD Supervision

	Candidate	Title	Co-Guide	Year
1.	Akshay Dvivedi	Electric Discharge Machining Of Al 6063 MMC Produced By Stir Casting Process	Dr. P. Kumar	2009
2.	S.R. Chauhan	Development, Characterization, Friction and Sliding Wear Response Of Vinyl-ester Based Hybrid Composites	Dr. A. Kumar	2011
3.	P.K. Rakesh	Secondary Processing of Polymer Matrix Composites	Dr. D. Kumar	2012
4.	P.K. Bajpai	Development and Characterization of Natural Fiber Reinforced Composites	Dr. J. Madaan	Ongoing
5.	Sarbjit Singh	Primary and Secondary Processing of Metal Matrix Composites	Dr. A. Dvivedi	Ongoing
6.	Abhishek Singh	Unconventional Machining of Metal Matrix Composites	Dr. P. Kumar	Ongoing
7.	Vikas Dhawan	Development Of A Knowledge Based For Machining Of Composites	Dr. S. Singh	Ongoing
8.	Kishore Debnath	Machining Behavior Of Natural Fiber Reinforced Polymer Composites	Dr. A. Dvivedi	Ongoing
9.	Harish Sharma Akkera	Super Hard Nano-Composites	Dr. D. Kaur	Ongoing
10.	Saurabh Chaitanya	Studies On The Development And Machining Characteristics of MMC's	—	Ongoing

M. Tech Supervision

	Candidate	Title	Co-Guide	Year
1.	Vikas Kumar Doomra	Drilling Of Metal Matrix Composites: A Finite Element Approach	Dr. D. Kumar	Ongoing
2.	Rohit Singh	Machinability Studies On Aluminum Based Metal Matrix Composites	Dr. P.K. Jha	Ongoing
3.	Ravinder Kumar	Electric Discharge Hole Grinding In Metal Matrix Composites	Dr. D. Kumar	Ongoing

4.	Deepak Varshney	Development And Characterization Of Natural fiber Reinforced Composites	Dr. D. Kumar	Ongoing
5.	Akshay Mali	Microwave Curing Of Natural Fiber Composites	Dr. A.K. Sharma	Ongoing
6.	Gagan Deep Singh Bedi	Design And Development Of A Ultra-Light Weight Prosthetic Leg	Dr. D. Kumar	2012
7.	Hitesh Sharma	Prediction Of Forces And Damage In Machining Of Composites Using Artificial Intelligence	Dr. D. Kumar	2012
8.	Anil Sharma	Development And Characterization Of Natural Fiber Reinforced Thermoplastic Composites	Dr. A.K. Sharma	2012
9.	Sabir Ali	Microwave Processing Of Partially And Fully Green Composites	Dr. A.K. Sharma	2012
10.	Aditya Pal Yadav	Development Of A Hybrid Process For Secondary Processing Of Metal Matrix Composites	Dr. A. Dvivedi	2012
11.	Harpreet Singh	A Comparative Investigation of Adhesively Bonded and Mechanically Fastened Composite Joints	Dr. P. Kumar	2011
12.	Deepak Malik	Microwave Joining of Polymeric Matrix Composites	Dr. P. Kumar	2011
13.	M.K. Niranjana	Mechanical Behavior of FRP Laminates with Drilled Holes	Dr. J. Madaan	2011
14.	Rahul Mahajan	Design and Development of Drill point Geometry for Damage Free Holes in FRP Laminates	Dr. J. Madaan	2011
15.	Pawan Kumar	Friction Stir Welding of Metal Matrix Composites	Dr. N. Arora	2011
16.	V. V. Sudarshan	Behavior of Closed-Cell Aluminum Foam under Impact Loading as energy Absorber	Dr. A.K. Sharma	2010
17.	T. V. Pradeep	Investigation of the Mechanical Behavior of MMCs using Finite Element Method	Dr. P. Kumar	2010
18.	Vikas Sharma	Drilling of Fiber Reinforced Plastics Using FEM	Dr. J. Madaan	2010
19.	P. L. Sutar	Forming Of Polymer Matrix Composite: A Finite Element Approach	Dr. J. Madaan	2010
20.	Shashi Bhushan	Modeling and Simulation of the Deboning Behavior of Wire Reinforced Aluminum Matrix Composites	Dr. P. Kumar	2009
21.	Sunil Kumar	Behavior of Polymer Matrix Composites under Ballistic Impact	Dr. A.K. Sharma	2009
22.	M.M. Gharage	Damage Behavior of Honeycomb under Impact Loading	Dr. A.K. Sharma	2009
23.	P.L. Anand	Investigation of the Adhesively Bonded Composite Joints using FEA	Dr. P.K. Jha	2009
24.	Abhishek Pyasi	Analysis of Buckling Performance of Laminated Cylindrical Shells With Cutout	Dr. P.M. Pathak	2008
25.	Pradeep Kumar	Investigation of the Effect of Interfacial Characteristics on the Mechanical Behavior of Metal Matrix Composites	Dr. P. Kumar	2008
26.	D.S. Gupta	Numerical Simulation of Low Velocity and Ballistic Impact on Polymer Composite Laminated Structures	Dr. A.K. Sharma	2008
27.	Deepak Bora	Investigation of the Effect of Process Parameters on the Surface Quality of High Speed Steel (T1) in Powder Mixed EDM	Dr. P. Kumar	2008
28.	S.K. Singh	Process Parametric Study of Machining of Metal Matrix Composite by EDM Process	Dr. P. Kumar	2007
29.	Prateek Kala	Ultrasonic Drilling of Metal Matrix Composites	Dr. P. Kumar	2007
30.	Amardeep Singh	Investigation of the Machining Characteristics of GFRP laminates	Dr. S. Singh	2007

B.Tech Supervision

	Candidates	Title	Year
1.	D. Badhan, N.V.R.N. Satish, P.S. Mitra	Development And Characterization of Natural Fiber Reinforced Composites	Ongoing
2.	A. Kumar, Dipesh, G.V.A. Dharanan	Environmental Impact on Natural Fiber Reinforced Composites	Ongoing
3.	A. Kumar, G.P.S. Gill	Machinability Studies on Thermoset And Thermoplastic Composites	Ongoing
4.	A. Modi, H. Sharma, M. Yadav	Microwave Processing of Polymer Matrix Composites	Ongoing
5.	S.P. Singh	Design And Development of Stick Cum Chair For Elderly	Ongoing
6.	Nikhil Rai, Pawan Kumar	Drilling of Thermoplastics and Thermosetting Plastics	2012
7.	D.K. Meena, S.K. Vatsa	Mechanical Behavior of Natural Fiber Composites under Different Environmental Conditions	2012
8.	Kalla R. Kumar, Aakar Verma	Design and Development of a Light-weight Prosthetic Leg	2012
9.	G. Garg, N. Kumar, N. Kumar	Artificial Intelligence Tool for Predicting Drilling Induced Damage in FRP Laminates	2011
10.	A. Maran, M.K. Meena, P. Chandra	Design & Development Of Mould For Processing Of Polymer Matrix Composites	2011
11.	A. Pandey, S. Tiwari, H. Bansal	Formability Studies On Polymer Matrix Composites Using Finite Element Approach	2011
12.	Ipshit Kumar	Study of Mechanical Behavior of Composite Laminates with Drilled Holes	2010
13.	A. Dubey, A. Dhyani, U. Gupta	Development of a Software Platform for Inventory Management for the SMEs and SSIs	2010
14.	Satyendra Kumar	Designing and Fabrication of Iosipescu Shear Test Fixture	2009
15.	J. S. Shaktawat, N.K. Gupta	A model for Integration of Build to Order and e-Supply Chain for Automotive Industry	2009
16.	S. Manchanda, S.S. Jasuja, V. Gautam	Development of Virtual Incubation Platform	2009
17.	A. Bangur, G. Singh, R. Sahoo	Investigation of Drilling of Composite Materials – A Numerical and Experimental Approach	2009
18.	A. Dwivedi, P. Kori	Investigation of the Drilling Operation In Bones Using Finite Element Approach	2009
19.	A. Agarwal, S. Garg	Fabrication and Analysis of Composite Materials Subjected to Different Environmental Conditions	2009
20.	S. K. Jaiswar	Experimental Investigation of Drilling of Fiber Reinforced Plastic Composites	2008
21.	A. Tambi, K. Saxena, A. Rathore	Investigation & Sales Forecasting Using Prediction Markets	2008
22.	A. Chun, M. Jethani, S. Singh	Integration and Implementation of Opens Source ERP in SME'S	2008
23.	H. S. Luthra, S. Jalan, A. Chopra	Analysis of the Logistic Chain of Pharmaceutical Sector in India	2008
24.	A. Jain, A. Yadav, V. Agarwal	Supply Chain Management in Context with Automobile Industry	2008
25.	N. Singh, A. Vyas, P. Kumar	Drilling Operation in Bone (A Finite Element Method Approach)	2007
26.	K.P. Sinha, A. Agarwal, S. Sharma	Development And Characterization Of Fiber Reinforced Plastics	2007
27.	G. Joshi, D. Solanki	Finite Element Modeling And Analysis Of Machining Of Composites	2007
28.	S. Srinivasulu, A. Anand	Finite Element Analysis of an Automobile Dashboard	2007

Ongoing Projects

	Title of Project	Funding Agency	Year start & total period	Name of P.I. and other investigators	Status Started or completed or in progress
1.	Developing Suitable Pedagogy Tool for the course on “Work System Design”	MHRD (NMEICT)	2009	Prof. P. Kumar Dr. D.K. Dwivedi	Pilot Phase Completed
2.	Developing Suitable Pedagogy Tool for the course on “Principles of Industrial Engineering”	MHRD (NMEICT)	2009	Dr. A.K. Sharma Prof. P. Kumar	Pilot Phase Completed
3.	Developing NPTEL PHASE - I Course on “Manufacturing Processes - I”- Video	MHRD (NMEICT)	2009	Dr. B. Karunakar Dr. D.K. Dwivedi	Completed
4.	Developing NPTEL PHASE - I Course on “Industrial Engineering”- Video	MHRD (NMEICT)	2009	Prof. P.K. Jain Prof. P. Kumar Dr. D.K. Dwivedi	Completed
5.	Developing NPTEL PHASE - II Course on “Processing of Non-Metal”- Video	MHRD (NMEICT)	2010	—	Completed
6.	Developing NPTEL PHASE - II Course on “Processing of Non-Metal”- Web	MHRD (NMEICT)	2010	—	Ongoing

Consultancy Projects

S.No.	Title of the Project	Funding Agency	Year
1.	Inspection of Ropeway	S.S. Associates, Mussorie (Uttarakhand)	2007
2.	Inspection of Cylinder Liners	Special Income Tax Crime Branch, Haldwani	-
3.	Inspection of Ropeway	S.S. Associates, Mussorie	2008
4.	Inspection of Ropeway	S.S. Associates, Mussorie	2009
5.	Inspection of Ropeway	Sahastra Dhara , Dehradun	2008
6.	Surface Characterization of Components	Saraswati Dynamics, Roorkee	-
7.	Hands on Training on Manufacturing of Composites	YMCA Institute of Engineering, Faridabad	2009
8.	Feasibility Studies for Improvement of Overall Productivity of Fabrication and Painting Shops of Everest Industries Ltd	Everest Industries	2011

Keynote/Expert/Invited Lectures

Topic	Program	Date & Venue
Composite Materials: Research and Development	PTU Sponsored FDP on Emerging Trends in Mechanical Engineering And Research	January 04, 2013, ACET, Amritsar
Modeling and Analysis of Drilling Behavior of Bio-Composites	Twenty-First International Symposium on Processing and Fabrication of Advanced Materials (PFAM-XXI)	December 10-13, 2012, IIT Guwahati
Natural Fiber Reinforced Bio-Composites: Opportunities And Challenges	Indo-Danish Workshop on Future Composites Technologies For Wind Turbine Blades	October 8-9, 2012, IIT Delhi
Conceptualization And Development of Environment-Friendly Composites	National Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering	October 5-7, 2012, PTU Jalandhar
Designing with Composites using Finite Element Approach	Expert Lecture-TEQIP	October 29, 2012, NIT Surat
Polymers, Plastics and Composites for Engineers	ACC Sponsored STC on Latest Trends in Building Materials and Construction Techniques	May 16-19, 2012, CEC, IIT Roorkee,
Microwave Joining of Natural Fiber Reinforced Composites	National Seminar on Advances in Materials and Manufacturing	March 17, 2012, Engineering College Bikaner
Drilling of Polymer Matrix Composites	National Seminar on Advances in Materials and Manufacturing	March 17, 2012, Engineering College Bikaner
Polymers, Plastics and Composites for Engineers	ACC Sponsored STC on Latest Trends in Building Materials and Construction Techniques	Jan 11-13, 2012, CEC, IIT Roorkee
Fuel-efficient Light Weight Cars using Composite Materials	National Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering	Oct 7-8, 2011, PTU Jalandhar
Image Analysis : A Research Tool	PTU Sponsored FDP on Fundamentals of Research Methodology	July 11-15, 2011, GNE Ludhiana
Fundamentals of Report Writing	PTU Sponsored FDP on Fundamentals of Research Methodology	July 11-15, 2011, GNE Ludhiana
Light Weight Vehicles using Composites	OGCF-2011, ONGC	January 27, 2011, ONGC Dehradun
Effective and Efficient Manufacturing: A Global Call	PCRA Sponsored National Seminar AMT-EC- 2010	November 18-19, 2010, Graphic Era University, Dehradun
Designing with Composites : Issues and Challenges	National Conference AFTMIE- 2010	November 12, 2010, Ganpati Group of Institutes, Bilaspur, Haryana
Material Removal Processes for Polymer Matrix Composites	National Conference on Futuristic Trends in Mechanical Engineering	October 29-30, 2010, GNDEC Ludhiana
Entrepreneurial Assessment	Entrepreneurship Awareness Camp (EAC) organized by STEP	Sep. 24 - 26, 2010, IIT, Roorkee
Processing of Composite Materials and Production Management	PTU sponsored Faculty Development Program on “Advanced Manufacturing”	July 12 th - 16 th 2010, Guru Gobind Singh College Of Engineering and Technology, Bhatinda, Punjab
Project Management	NEISBUD Sponsored course on “Hand Made Paper”	August 25 th – September 8 th , 2009, IIT Roorkee, India

Project Management	NEISBUD Sponsored Course on “Plant Bio- Technology and High-Tech Agribusiness Management”	June 15 th – July 18 th , 2009, IIT Roorkee, India
Materials Management & Value Engineering	Behavioral and Management Training Program for MPSEB	December 24 th – February 2 nd , 2008, IIT Roorkee
Capacity Management,	Analytical Skills Development Program	July 07-19 th , 2008, Department of Mechanical and Industrial Engineering, IIT, Roorkee, India
Materials Management	Analytical Skills Development Program	July 07-19 th , 2008, Department of Mechanical and Industrial Engineering, IIT, Roorkee, India
Composite Materials	MHRD/AICTE sponsored short term course on ”Composite Materials”	June 30 th – July 01 st , 2008, Mechanical Engineering Department, National institute of Technology, Hamirpur, India
Composite Materials and their Application for Sports Industry	Advanced Materials in Sports Industry	May 27 th , 2008, Dr B R Ambedkar National Institute of Technology, Jalandhar, India
Materials Management & Value Engineering	Behavioral and Management Training Program for MPSEB	November 12 th – December 20 th , 2007, IIT Roorkee
Material Selection	QIP Short term course on ”Product Design and Development”	July 9-13 th , 2007, IIT, Roorkee, India
Primary and Secondary Processing of Composite Materials	One Week Short Term Training Programme on “Recent Trends In Composite Materials”	January 15-19 th , 2007, Mechanical Engineering Department , S.V. Ambedkar National Institute of Technology, Surat, India
Machining of Composites: A Research Perspective	National Conference on Recent Developments And Future Trends In Mechanical Engineering (RDFTME-2006)	November 03-04 th , 2006, Department of Mechanical Engineering, National Institute of Technology Hamirpur ,India
Non – Destructive Testing of Polymer Matrix Composites	AICTE Sponsored STC on ”Ultrasonic Nondestructive Evaluation of Composite Materials”	October 03 – 08 th , 2006, Department of Mechanical Engineering, IIT, Kanpur, India
Composite Materials	Seminar on Advances in Composite Materials (under TEQIP)	April 29-30 th , 2006, Department of Mechanical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, India
Value Engineering	Analytical Skills Development Program	4 weeks Program, 2006, Associated Cement Companies, IIT Roorkee, India
Value Engineering	Analytical Skills Development Program	4 weeks Program, 2005, Associated Cement Companies, IIT Roorkee, India
Primary and Secondary Processing of Composite Materials	AICTE sponsored STC on “Design and Manufacturing of Composite Materials”	Dec. 6 – Dec. 10, 2004, Indian Institute of Technology, Guwahati, 2004

Short Term Courses (STC) Conducted

	Co-Coordiators	Course Title	Sponsors	Dates
1.	Dr. P. Kumar, Dr. A.K. Sharma	Manufacturing Excellence Through Quality Assurance	AICTE	09-13 July 2012
2.	Dr. P. Kumar, Dr. A. Dvivedi	Advanced Materials And Manufacturing	CEC	20-22 Jan. 2012
3.	Dr. P. Kumar	Processing Challenges And Newer Manufacturing Methods	AICTE	25-29 June 2011
4.	Dr. P. Kumar Dr. A.K. Sharma	Advanced Materials and Manufacturing	AICTE	14-18 June 2010
5.	Dr. A.K. Sharma	Composites: Design and Manufacturing	AICTE	07-11 July 2008
6.	Dr. A.K. Sharma	Advanced Processing of Composite Materials	AICTE	24-28 July 2006
7	Dr. P. Kumar Dr. A.K. Sharma	Hands on Training on Manufacturing of Composite Materials	YMCA IE, Faridabad	06-08 March 2009
8.	Dr. D. Das	Entrepreneurship Awareness Camp	STEP	24-26 Feb. 2009
9.	Dr. P.K. Garg	Entrepreneurship Awareness Camp	STEP	24-26 Sept. 2010

Complete List of Publications

Journals

1. Pramendra Kumar Bajpai, Dharmendra Meena, Shrey Vatsa, **Inderdeep Singh**, Tensile Behaviour of Nettle Fiber Composites Exposed to Various Environments, *Journal of Natural Fibers* (Accepted).
2. Milind Gharge, Pawan Kumar Rakesh, **Inderdeep Singh**, Apurba Kumar Sharma, Crushing Behaviour Of Metal Matrix Composites Honeycomb Under Impact Loading, *International Journal of Engineering Simulation*, (In Press).
3. Amarinder Pal Singh, Manu Sharma, **Inderdeep Singh**, A Review Of Modeling And Control During Drilling Of Fiber Reinforced Plastic Composites, *Composites: Part B*, 47, 2013, 118–125.
4. Pramendra Kumar Bajpai, **Inderdeep Singh**, Jitendra Madaan, Tribological Behaviour of Poly Lactic Acid (PLA) based Green Composites, *Wear*, 297, 829-840.
5. Pramendra Kumar Bajpai, **Inderdeep Singh**, Jitendra Madaan, Comparative Studies of Mechanical and Morphological Properties of PLA and PP-based Natural Fiber Composites, *Journal of Reinforced Plastics and Composites*, 31, 2012, 1712-1724.
6. Pramendra Kumar Bajpai, **Inderdeep Singh**, Jitendra Madaan, Frictional and Adhesive Wear Performance of Natural Fiber Reinforced Polypropylene Composites, *Proceedings of the Institution of Mechanical Engineers, Part J, Journal of Engineering Tribology*, DOI: 10.1177/1350650112461868.
7. Pramendra Kumar Bajpai, **Inderdeep Singh**, Jitendra Madaan, Finite element model for microwave heating of thermoplastic composites, *International Journal of Materials Engineering Innovation*, Vol. 3, 2012, 247-258.
8. Sarbjit Singh, **Inderdeep Singh** and Akshay Dvivedi, (2012), "Parametric Evaluation of Drilling of Metal Matrix Composites (MMCs) Using Taguchi Methodology" *Journal of Manufacturing and Forming Technology*, Vol 4, Number 3/4.
9. Abhishek Singh, Pradeep Kumar, **Inderdeep Singh**; "Design and Development of Electro-Discharge Drilling Process", *Advanced Materials Research*; Vol.651, pp607-611, 2013.
10. Pramendra Kumar Bajpai, **Inderdeep Singh**, Jitendra Madaan, Development and Characterization of PLA based 'Green' Composites: A Review, *Journal of Thermoplastic Composite Materials*, 2012 DOI: 10.1177/0892705712439571.
11. **I. Singh**, P. K. Bajpai, D. Malik, J. Madaan, N. Bhatnagar, Microwave Joining of Natural Fiber Reinforced Green Composites, *Advanced Materials Research*, 410, 2012, pp. 102-105.
12. Rakesh P.K, **Singh I**, Kumar D, Drilling of Composite Laminates with Solid and Hollow Drill Point Geometries, *Journal of Composite Materials*, 2012, DOI: 10.1177/0021998312436997.
13. Rakesh P.K, **Singh I**, Kumar D, Compressive Behavior of Composite Laminates with Drilled Hole: A Finite Element Approach, *International Journal of Engineering Simulation*, 2012 (In press).
14. Dvivedi A, Rajeev V. R, Kumar P, **Singh I**, "Tribological Characteristics of Al 6063–SiC_p Metal–Matrix Composite Under Reciprocating and Wet Conditions", *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 226, 2012, pp 138-149.
15. Rakesh P.K, **Singh I**, Kumar D, Compressive Behavior of Glass Fiber Reinforced Plastic Laminates with Drilled Hole, *Advanced Materials Research* 410, 2012, pp. 349-352.
16. Rakesh P.K, **Singh I**, Kumar D, "Flexural Behavior of Glass Fiber Reinforced Plastic Laminates with Drilled Hole", *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, 2012 (Accepted).
17. Kumar S, Chauhan S.R, Rakesh P.K, **Singh I**, Davim J.P, "Drilling of Glass fiber/vinyl ester composites with Filler", *Materials and Manufacturing Processes*, 2012 (Accepted).
18. Pramendra Kumar Bajpai, **Inderdeep Singh**, Jitendra Madaan, "Joining of Natural Fiber Reinforced Composites using Microwave Energy: Experimental And Finite Element Study", *Materials & Design*, Vol. 35, 2012, pp- 596-602.
19. **Singh I**, Bajpai P.K, Malik D, Madaan J, Bhatnagar N, "Microwave Joining of Natural Fiber Reinforced Green Composites", *Advanced Materials Research*, Vol. 410, 2012, pp -102-105.
20. Rakesh P.K, **Singh I**, Kumar D, "Compressive Behavior of Glass Fiber Reinforced Plastic Laminates with Drilled Hole", *Advanced Materials Research*, **Vol. 410, 2012, pp -349-352.**
21. Singh S, Singh A, **Singh I**, Dvivedi A, "Optimization of the Process Parameters for Drilling of Metal Matrix Composites (MMC) Using Taguchi Analysis", *Advanced Materials Research*, **Vol. 410, 2012, pp - 249-252.**

22. Kishore R. A, Tiwari R, Rakesh P.K, **Singh I**, Bhatnagar N, "Investigation of Drilling in Fiber Reinforced Plastics using Response Surface Methodology". *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **Vol. 225 (3), 2011, pp- 453-457.**
23. Malik J, Mishra R, **Singh I**, "PSO-ANN Approach for Estimating Drilling Induced Damage in CFRP Laminates", *Advances in Production Engineering and Management*, **Vol. 6(2), 2011, pp. 95-104.**
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