

### PhD Completed Candidates

<b>Sr. No.</b>	<b>Name of Candidate</b>	<b>Topic</b>	<b>Name of Supervisor(s)</b>	<b>Status</b>
1	Lakhbir Singh	Studies in the development and performance evaluation of magnetic abrasives.	Dr. Sehijpal Singh, Dr. S. P. Mishra	Completed
2	Jatinder kapoor	Studies on the effect of Cryogenic treated brass wire on performance of Wire- EDM	Dr. Sehijpal Singh, Dr. J. S. Khambha	Completed
3	Vikas Dhawan	Development of data base for machining of composite materials.	Dr. Sehijpal Singh, Dr. Inderdeep Singh	Completed
4	Harish Kumar	Surface modification of tubes with magnetically assisted stainless steel pins	Dr. Sehijpal Singh, Dr. Pradeep Kumar (IIT Roorkee)	Completed
5	Jagdeep Singh	A Study to Improve the Performance of Small Medium Enterprises using CI strategies	Dr. Harwinder Singh	Completed
6	Kamaljit Singh	Experimental investigations for the development of rapid tooling of FDM process	Dr. Rupinder Singh Dr. Harwinder Singh	Completed
7	Abhishek Jain	Evaluation of Total Productive Maintenance Strategies in Small & Medium Enterprises of India for Strategic Success	Dr. R S. Bhatti Dr. Harwinder Singh	Completed
8	Jaspreet Singh	Some investigations for biomedical implant prepared by combining Fused deposition modelling, Chemical vapour smoothing, Silicon moulding & Investment casting	Dr. Rupinder Singh Dr. Harwinder Singh	Completed
9	Raman Kumar	Strategic Planning of Manufacturing Tools for Enhancing Performance Index of Manufacturing System	Dr. Harwinder Singh	Completed
10	Rajendra Kumar	Fabrication and Characterization of Natural Fiber Hybrid Polymeric Composite	Dr. Tejeet Singh Dr. Harwinder Singh	Completed
11	Kanwal Jit Singh	Experimental investigation into ultrasonic machining of polycarbonate bullet proof glass and acrylic heat resistant glass	Dr. Jatinder Kapoor Dr. I.P.S. Ahuja	Completed

12	Pragat Singh	Performance Evaluation of Minimum Quantity Lubrication (MQL) during Milling of Sticky Materials	Dr. J S Dureja Dr. Harwinder Singh	Completed
13	Amandeep Singh	Investigation of Human Response To Vibration Arising From Agricultural Tractor	Dr. L P Singh Dr. Sarabjit Singh Dr. Harwinder Singh	Completed
14	Gagandeep Singh Kohli	Creep analysis of functionally graded thick cylinders	Dr. Tejeet Singh Dr. Harwinder Singh	Completed
15	Amrinder Singh pannu	Fiber reinforced plastics.	Dr. Sehijpal Singh, Dr. VikaS Dhawan	Completed
16	Harvinder Singh	Effect of different wire electrodes on machining performance of nickel based alloy with wire electrical discharge machining	Dr. Jatinder Kapoor	Completed
17	Amanpreet Kaur Sidhu	Job Stress in Punjab State Power Corporation Limited among Officers and Supervisors	Dr. Harwinder Singh Dr. Sandeep Singh Virdi	Completed
18	Ravish Arora	Joining Of Inconel 600 Superalloy Through Microwave Hybrid Heating And Its Characterization	Dr. Jatinder kapoor	Completed
19	Deepinder Singh	Strategic Measures for Analyzing Effectiveness of Quality Management Practices in Manufacturing Industry	Dr. Harwinder Singh Dr. Jagwinder Singh	Completed
20	Amardeep Singh	Studies in characterization and performance of magnetic abrasives	Dr. Sehijpal Singh, Dr. Lakhvir Singh	Completed
21	Palwinder Singh	Experimental Investigation of Magnetic Abrasive Flow Machining (MAFM) using Mechanically Alloyed Magnetic Abrasives	Dr. Lakhvir Singh, Dr. Sehijpal Singh	Completed
22	Partap Singh	Fine Finishing of Round Surfaces with Magneto-hydrodynamic Forces	Dr. Sehijpal Singh Dr. Lakhvir Singh	Completed
23	Vivek Aggarwal	Experimental Studies in wire EDM of Inconel 718	Dr. Sehijpal Sing Dr. R.K Garg (NIT Jalandahar)	Completed

24	Bhaskar Goel	Single point diamond turning of hard to machine materials	Dr. Sehijpal Singh, S.V. Ram Gopal (CSIO Chandigarh)	Completed
25	Raman Kumar	Optimization of Energy Consumption, Surface finish and material removal rate in Turning Operations	Dr. Paramjit Singh Bilga Dr. Sehijpal Singh	Completed
26	Raman Kumar	Effective Implementation of Reconfigurable Manufacturing System for Enhancing Performance Index of Manufacturing Industry	Dr. Harwinder Singh Dr. R S Bhatti	Completed
27	Kulwinder Singh	Study about friction stir welding	Dr. Harmeet Singh, Dr. Gurbhinder Singh	Completed
28	Pardeep Bains	Packed Bed Solar Energy Storage System	Dr. Harmeet Singh	Completed
29	Hitesh Vasudev	To compare the wear characteristics of detonation gun sprayed samples with hvof sprayed samples	Dr. Harmeet Singh	Completed
30	Harbans Singh	A study on Techno-economic viability of rural solar power grid for punjab	Dr. Harmeet Singh Dr. Parampal Singh	Completed
31	Kulwant Singh	Experimental Studies on Friction Stir Welded Joints of Magnesium Alloy	Dr. Harmeet Singh Dr. Gurbhinder Singh	Completed
32	Prince Pal Singh	Development of a System for Product Flow Configuration for Reconfigurable Manufacturing System	Dr. Harwinder Singh Dr. Jatinder Madan	Completed
33	Simranpreet Singh Gill	Investigations on characterization and machining performance of cryo-treated single-point cutting tools	Dr. Rupinder Singh Dr. Harpreet Singh Dr. Jagdev Singh	Completed
34	Munish Chhabra	Investigations for generating cost-effective rapid castings using three-dimensional printing	Dr. Rupinder Singh	Completed
35	Rajesh Kumar	Investigations for optimizing wall thickness in three-dimensional printing for light alloy casting	Dr. Rupinder Singh Dr. I.P.S. Ahuja	Completed

36	Kamaljit Singh	Experimental investigation for the development of rapid tooling using fused deposition modeling	Dr. Rupinder Singh Dr. Harwinder Singh	Completed
37	Harish Kumar Garg	Experimental investigations for development of new metal/polymer materials for rapid tooling using fused deposition modeling	Dr. Rupinder Singh	Completed
38	Sanjeev Kumar	Investigating the effect of cryo treatment on machining characteristics of Titanium alloys with electric discharge machining	Dr. Rupinder Singh Dr. T. P. Singh Dr. Ajay Batish	Completed
39	N. S. Bhangu	Application of reliability centered maintenance in Thermal power plant	Dr. Rupinder Singh Dr. G. L. Pahuja	Completed
40	Sunpreet Singh	Experimental investigations for development of metal matrix composite prepared by combining fused deposition modelling and investment casting	Dr. Rupinder Singh	Completed
41	Parlad Garg	Investigating the mechanical and metallurgical properties of hybrid investment casting	Dr. Rupinder Singh Dr. I.P.S. Ahuja	Completed
42	Jasgurpreet Singh	Investigating the effect of process parameters of fused deposition modelling and vapour smoothing on surface properties of abs replicas for biomedical applications	Dr. Rupinder Singh Dr. K.S.Boparai	Completed
43	Gaurav Kumar Dhuria	Investigating the effect of cryo treated tool and work material in ultrasonic machining of titanium alloys	Dr. Rupinder Singh Dr. Ajay Batish	Completed
44	Swarandeep Singh	Experimental investigations for development of Aluminum MMC with hybrid reinforcement and vacuum moulding	Dr. Rupinder Singh Dr. S. S. Gill	Completed
45	Narinder Singh	Investigations for metal matrix composite prepared by using waste polymer based sacrificial rapid pattern in investment casting	Dr. Rupinder Singh Dr. I.P.S. Ahuja	Completed
46	Piyush Bedi	Investigations for rapid tooling prepared with waste polymer-based hybrid filament	Dr. Rupinder Singh Dr. I.P.S. Ahuja	Completed
47	Ranvijay Kumar	Welding of dissimilar plastic-based materials by using hybrid filament of fused deposition modelling	Dr. Rupinder Singh Dr. I.P.S. Ahuja	Completed

48	Jimmy Mehta	Development of coating using thermal spray technique for wear prone industrial application	Dr. J. S. Grewal Dr. Pallav Gupta	Completed
49	Hitesh Arora	Finite element simulation of weld-induced residual stress in GTA welded thin cylinders	Dr. Rupinder Singh Dr. G. S. Brar	Completed
50	Gaurav Vohra	Storage stability, performance and emission studies on variable compression engine running on biodiesel	Dr. Harmeet Singh Dr. Vaneet Parbhakar Dr. Radhey Shyam	Thesis submitted
51	Kamaljeet Bhambri	Investigation on Combined Effect of Physiological and Psychological Parameters on Human Subjects	Dr. Harwinder Singh Dr. Tejeet Singh	Thesis submitted
52	Naresh Kumar	Performance Evaluation of Natural Fiber Reinforced Friction Composite Material	Dr. J. S. Grewal	Thesis submitted

#### PhD Pursuing Candidates

Sr. No.	Name of Candidate	Topic	Name of Supervisor(s)	Status
1	Jagdeep Singh	Performance Evaluation of Powder mixed electrical Discharge for Machining of Moulds and Dies.	Dr. Sehijpal Singh Dr. Lakhvir Singh	on-going
2	Kanwaljit Singh	experimental investigation into ultrasonic machining of polycarbonate and acrylic glass.	Dr. Jatinder Kapoor Dr. I.P.S. Ahuja	on-going
3	Harvinder Singh	Effect of wire electrodes on the machining performance of nickel based alloy by wire EDM.	Dr. Jatinder Kapoor	on-going
4	Arvinder Singh Channi	Fabrication, wear characteristics and non-conventional machining of aluminum/titanium Diboride particulate metal matrix composite	Dr. J. S Grewal Dr. H. S. Bains	on-going
5	Mandeep Singh	Characteristics of friction stir welding of aluminum alloy and magnesium alloy	Dr. J. S Grewal	on-going
6	Kanwalpreet Sahni	Performance of Cr based alloy coatings deposited on turbine steel with respect to slurry erosion and wear	Dr. J. S Grewal	on-going

7	Deepak Dhand	Behavioral comparison of hot and cold sprayed Ni-Al <sub>2</sub> O <sub>3</sub> coated boiler steels with respect to erosive and abrasive wear	Dr. J. S Grewal Dr. Parlad Jumar	on-going
8	Baljeet singh	Synthesis of composite material by powder metallurgy and wear study for automotive application	Dr. J. S Grewal	on-going
9	Arshpreet Kaur	Improving wear resistance of front axle constant velocity joint by application of surface coatings	Dr. J. S Grewal Dr. J. S. Dureja	on-going
10	Satwant Singh	Energy Storage	Dr. Harmeet Singh	Course work completed