

## Profile Page



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### **Research Interests :**

Additive Manufacturing, CNC Machining, Hybrid Manufacturing

### **Other Profile Links :**

#### **Google Scholar Link :**

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#### **Personal Web Link :**

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### **Journal Publications :**

Year	Journal	Publication
2019	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0954406219889076 (SCI Indexed-Impact Factor-1.359).	"Analysing the influence of raster angle, layer thickness and infill rate on the compressive behaviour of EVA through CNC-assisted fused layer modelling process"
2019	International Journal of Materials and Product Technology 59, no. 3 (2019): 194-211. (SCI Indexed-Impact Factor-0.802).	"Investigations on the melt flow behaviour of aluminium filled ABS polymer composite for the extrusion-based additive manufacturing process."

2018	Material Today Proceedings (Elsevier), 9, no. 3 (2018): 18532-18539, (Scopus Indexed).	"Shrinkage compensation study for performing machining on additive manufactured parts"
2018	Materials Today: Proceedings 5, no. 2 (2018): 4118-4127, (Scopus Indexed).	Experimental investigations on suitability of polypropylene (PP) and ethylene vinyl acetate (EVA) in additive manufacturing"
2018	Journal of Manufacturing Processes 35, (2018): 428-436, (SCI Indexed-Impact Factor-3.462).	"Investigation on the effects of process parameters in CNC assisted pellet based fused layer modeling process."
2018	Journal of Manufacturing Processes 35, (2018): 317-326, (SCI Indexed-Impact Factor-3.462).	"The effect of process parameters on tensile behavior of 3D printed flexible parts of ethylene vinyl acetate (EVA)"
2018	Journal of the Brazilian Society of Mechanical Sciences and Engineering 40, no. 4 (2018): 175, (SCI Indexed-Impact Factor-1.743).	"Additive manufacturing of flexible electrically conductive polymer composites via CNC-assisted fused layer modeling process."
2018	Journal of the Brazilian Society of Mechanical Sciences and Engineering 40, no. 3 (2018): 143, (SCI Indexed-Impact Factor-1.743).	"Extrusion-based additive manufacturing process for producing flexible parts."
2018	Materials Physics and Mechanics 37 no. 2 (2018): 124-132, (Scopus and ESCI Indexed).	"3D printing of flexible parts using EVA material."
2018	International Journal of Manufacturing Technology and Management (In Press), (Scopus Indexed).	"Extrusion-Based Additive Manufacturing Systems: Current State, Parameters Optimization, Materials, Research Gap, Challenges and Future Potential"
2015	International Journal of Rapid Manufacturing 5, no. 2 (2015): 186-198	"Effect of fractal curve based toolpath on part strength in fused deposition modeling."

### Conference Publications :

Year	Conference	Publication
2019	6th International Conference on Production and Industrial Engineering (CPIE-2019), Dr. B. R. Ambedkar National Institute of Technology Jalandhar, 08-10 June 2019	"A novel approach of generating toolpath for performing additive manufacturing on CNC machining center"
2019	6th International Conference on Production and Industrial Engineering (CPIE-2019), Dr. B. R. Ambedkar National Institute of Technology Jalandhar, 08-10 June 2019	"Investigations on the development of heated build platform for additive manufacturing of large-size parts"
2019	6th International Conference on Production and Industrial Engineering (CPIE-2019), Dr. B. R. Ambedkar National Institute of Technology Jalandhar, 08-10 June 2019	"On the numerical investigation of material deposition in fused filament fabrication"
2016	CAD/CAM, Robotics and Factories of the Future, Springer, New Delhi	"Hilbert curve based toolpath for FDM process"

**Book/Chapter Publications :**

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Book Chapter	On the surface finish improvement in hybrid additive subtractive manufacturing process	Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018), Springer	Mayur Vispute, Narendra Kumar, Prashant K. Jain, Puneet Tandon, and Pulak M. Pandey	9789811326967	2019
Book Chapter	An Image-Based Approach of Generating Automatic Toolpath for Profile Milling	Advances in Industrial and Production Engineering, Springer, Singapore	Vishal Agrawal, Avinash Kumar, Narendra Kumar, and Prashant K. Jain	9789811364112	2019
Book Chapter	Toolpath generation for additive manufacturing using CNC milling machine	3D Printing and Additive Manufacturing Technologies, Springer	Narendra Kumar, Prashant K. Jain, Puneet Tandon, and Pulak M. Pandey	9789811303043	2018

**Award and Honours :**

Title	Activity	Given by	Year
Project shortlisted among the 700 Projects	TITAN Tune 2.0	TITAN Watch Manufacturing Co.	2019
Outstanding reviewer award	For reviewing the manuscripts for Journal of manufacturing processes	Elsevier	2018
JENESYS program	Selected for visiting Japan for a week	Ministry of Foreign Affairs, Japan	2016