

Dept. of Production Engineering
Guru Nanak Dev Engineering College, Ludhiana

International Collaborations

The Dept. of Production Engineering has made International collaborations for following 04 different activities:-

1. International collaboration for Joint Jol. Editorial Activities
2. International collaboration for Joint Research Projects
3. International collaboration for Joint Book writing
4. International collaboration for Joint Jol. publications

Jol. Editorial activities

- Editor for special topic volume ‘Rapid casting solutions’ for periodical ‘Material Science Forum’ as print, CD and online at www.scientific.net by Trans Tech Publications Ltd., Switzerland, 2011.
- Editor for Special Issue on: ‘Advances in Rapid Manufacturing of Processes and Materials’ for International Journal of Materials Engineering Innovation (IJMatEI), Inderscience publications, U.K, Volume 3, Nos. ¾, 2012.
- Editor for special topic volume ‘Recent advancement in manufacturing processes’ for periodical ‘Material Science Forum’ as print, CD and online at www.scientific.net by Trans Tech Publications Ltd., Switzerland, Vol. 751, 2013.
- Member Editorial Board Int. Journal of Materials Forming and Machining Processes [IJMFMP] www.igi-global.com/ijmfmp.
- Editor for special topic volume ‘Recent advancement in manufacturing processes’ Vol.II for periodical ‘Material Science Forum’ as print, CD and online at www.scientific.net by Trans Tech Publications Ltd., Switzerland, Vol. 808, 2015.
- Editor for Special Issue on: ‘Advancements in Additive Manufacturing’ for International Journal of Materials Engineering Innovation (IJMatEI), Inderscience publications, U.K, 2015.
- Editor for special topic volume ‘Material processing technologies’ for periodical ‘Material Science Forum’ as print, CD and online at www.scientific.net by Trans Tech Publications Ltd., Switzerland, 2016.

Joint research projects

- Dr. Alina VLADESCU, National Institute for optoelectronics - ReCAST Center Atomistilor no. 409, P.O.Box MG 05, Magurele - Bucharest, 077125, ROMANIA (For joint research activities in SS316L biomedical implants)
- Dr. Fernando Fraternali, University of Salerno, Fisciano (SA), Italy (For project title: 4D printing with E-waste: an insight to physical properties) under INDO-ITALIAN executive programme of cooperation in scientific & technological cooperation
- Dr. J. Paulo Davim, Campus Santiago, University of Aveiro, Portugal, (For project title: Development of cost effective flexible dentures for old age and sugar patients) under INDIA–PORTUGAL inter-governmental programme of cooperation in science and technology
- Dr. M.M.Noor, University of Malaysia (For project title: Development of HAp (Ca₅(PO₄)₃(OH)) reinforced biodegradable porous structures through polymer deposition

technology for tissue engineering applications) under ASEAN-India collaborative R&D proposal.

Joint book/ monograph writing

- Reference Module in Materials Science and Materials Engineering, 2017, Oxford: Elsevier; ISBN: 978-0-12-803581-8 (Co-author: M.S.J Hashmi, Dublin City University, Ireland).
- Additive Manufacturing: Applications and Innovations, Part of the Manufacturing Design and Technology Series (Series Editor: J. Paulo Davim), CRC Press, Taylor & Francis, 2018.

Joint International Jol. Publications

S. No	Title of Paper	Author(s)	Name of Journal, Vol. No. & Year	Page No.
1	Development of in-house composite wire based feed stock filaments of fused deposition modelling for wear-resistant materials and structures	Rupinder Singh, Sunpreet Singh, F. Fraternali	Composites Part B, Vol. 98, 2016 (Elsevier publications)	244-249
2	Friction welding of dissimilar plastic/polymer materials with metal powder reinforcement for engineering applications	Rupinder Singh, R.Kumar, L. Feo, F. Fraternali	Composites Part B: Engineering, Vol. 101, 2016	77-86
3	Experimental investigations for mechanical and metallurgical properties of friction stir welded recycled dissimilar polymer materials with metal powder reinforcement	Rupinder Singh, Vinay Kumar, Luciana Feo, Fernando Fraternali	Composites Part B: Engineering, Vol. 103, 2016	90-97
4	Waste management by recycling of polymers with reinforcement of metal powder	Rupinder Singh, N.Singh, F. Fabbrocino, F. Fraternali, IPS Ahuja	Composites Part B: Engineering, Vol. 105, 2016	23-29
5	Effect of single particle size, double particle size and triple particle size Al ₂ O ₃ in Nylon-6 matrix on mechanical properties of feed stock filament for FDM	Rupinder Singh, P. Bedi, F. Fraternali, IPS Ahuja	Composites Part B: Engineering, Vol. 106, 2016	20-27
6	Thermal characterization of recycled polymer for additive manufacturing applications	K.S.Boparai, Rupinder Singh, F.Fabbrocono F.Fraternali	Composites Part B: Engineering, Vol. 106, 2016	42-47
7	Investigation for surface finish improvement of FDM parts by vapor smoothing process	Rupinder Singh, Sunpreet Singh, Iqwinderpreet Singh, F.Fabbrocono Fernando Fraternali	Composites Part B: Engineering, Vol. 111, 2017	228-234

8	Dimensional accuracy analysis of coupled fused deposition modeling and vapor smoothing operations for biomedical applications process	Jasgurpreet S. Chohan, Rupinder Singh , K. S. Boparai, Rosa Penna, F. Fraternali	Composites Part B: Engineering, Vol. 117 , 2017 (Elsevier Publications)	138-149
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