

Faculty Profile
(For booklet and website)

Name: AMIT KUMAR SINHA



Designation: ASSISTANT PROFESSOR

Department: MECHANICAL ENGINEERING

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Qualification: Ph.D. (Pursuing)
M.S (Human & Systems Engg. from UNIST South Korea)
B.Tech. (Manufacturing Engg. from National Institute of Foundry & Forge Technology, Ranchi)

Experience: 7 years

Teaching: 7 years **Research:** 4 years **Administration:** 01 years **Total:** 7 years

Areas of Interest / Specialization:

1. Optimization in Manufacturing Systems
2. Fault diagnosis in Manufacturing Systems
3. New Product Development
4. Artificial Intelligent Techniques
5. Supply Chain Management

Brief Bio-data:

Amit Kumar Sinha is an Assistant Professor in Mechanical Engineering at Shri Mata Vaishno Devi University (SMVDU), Katra, Jammu & Kashmir-182320, India. He is also pursuing his Ph.D. in “Supply chain configuration for sustainable new product development: A multi-objective model and its solution approach”. He received M.S in Human and Systems Engineering from Ulsan National Institute of Science & Technology (UNIST), South Korea. He has B.Tech. Degree in Manufacturing Engineering from National Institute of Foundry & Forge

Technology (NIFFT), Ranchi, India. He has more than 5 years of teaching and research experience at different levels. He works in the area of Evolutionary Algorithm, Modelling and Simulation of Manufacturing Systems, Artificial Intelligence, Fault Diagnosis in Manufacturing Systems, New Product Development, Supply Chain Management, Planning and Scheduling of Automated Manufacturing Systems etc. He has published around 5 articles in leading International Journals and is serving as a Reviewer of five International Journals including Computers and Industrial Engineering, International Journal of Production Research, International Journal of production Economics, European Journal of Operation Research, etc.

Research Profile

Research Projects Undertaken: (Applied to AICTE)

S. No.	Role	Title	Funding Agency	Current Status (Closed/Running)

Research Publications:

S. No.	Year	Publication
International Journals		
1	2017	Sinha, Amit Kumar , and Ankush Anand. "Towards fuzzy preference relationship based on decision making approach to access the performance of suppliers in environmental conscious manufacturing domain." <i>Computers & Industrial Engineering</i> 105 (2017): 39-54.
2	2016	Bairagi, M., Sinha, Amit Kumar , and A. Anand. "Guillotine side trimming shear machine: A case study of plate mill in Bhilai steel plant." <i>Engineering Solid Mechanics</i> .4 (2016): 226-234.
3	2016	Kashyap S., Sinha, Amit Kumar . "Industrial Inspection: A Machine Vision Approach." <i>International Journal of Scientific & Technical Advancement</i> 2 (4), (2016): 71-74
4	2015	Sinha, Amit Kumar , P Swati, and A Anand. "Responsive supply chain: modeling and simulation". <i>Management Science Letters</i> 5 (6), (2015): 639-650
5	2014	Sinha, Amit Kumar , and P Swati. "Supply Chain: Next generation issues and concerns." <i>Uncertain Supply Chain Management</i> 2 (1), (2014): 1-14
6	2013	Sinha, Amit Kumar , DY Kim, and D Ceglarek. "Correlation analysis of the variation of weld seam and tensile strength in laser welding of galvanized steel". <i>Optics and Lasers in Engineering</i> 51 (10), (2013): 1143-1152
7	2011	SK Sinha, Sinha, Amit Kumar , P Kour, PK Barhai. "Nickel doped PZT ceramics by a spray dried-PVA assisted method." <i>Journal of Ceramic Processing Research</i> 12 (1), (2011): 93-95
Communicated To International Journal		
1	2017	Sinha, Amit Kumar , and A Anand. "Supply chain configuration for new product development: A multi-objective model and its solution approach" <i>Computers and Industrial Engineering</i> (Under review)

Books Publications:

S. No.	Year	Publication

Conference Publications:

S. No.	Year	Conference	Publication
International Conferences			
1	2016	3rd International Conference on recent Trends & Advancements in Engineering & Technology; (17-18) Nov 2016 at Shri Mata Vaishno Devi University (SMVDU) Katra	Kashyap Shweta, Amit Kumar Sinha. Lean manufacturing systems: challenges and future scopes
2	2013	Proceedings of the Society of CAD/CAM Conference 2013 at Yonsei University, South korea	Amit Kumar Sinha, Duck Young Kim, Laser welding quality monitoring using plasma, back reflection and temperature signals based on Dempster-Shafer theory
National Conferences/workshop			
1	2017	2 days workshop on Introduction to Robotics through e-Yantra Lab Setup Initiative (eLSI)	Conducted by IIT Bombay at Bhargava College of Engineering and Technology Langath, Samba, Jammu
2	2017	3 days workshop for Faculty-mentors on Induction Programme for new students	Conducted by National project Implemented Unit (NPIU), under MHRD, New Delhi at PEC Chandigarh
3	2017	National Conference on Innovative Trends in Mechanical Engineering (NCITME 2017); 3-4 March 2017 at Shri Mata Vaishano Devi University (SMVDU) Katra	A Sharma, and Sinha, Amit Kumar . Potential of ultrasonic testing approach in mechanical engineering applications
4	2004	National Workshop on Six Sigma Implementation in Foundry/Forge Industries at NIFFT Ranchi	Sinha, Amit Kumar , A Choudhary, and M K Tiwari. Selection of casting process using Analytical Hierarchy Process (AHP) based six sigma compliant approach

Research Supervised:

S. No.	Year	Role	Research Topic	Status
1	2017	Supervisor	Design and Fabrication of Bore Well Rescue Machine (B.Tech.-2017)	Completed
2	2017	Co-Supervisor	Analysis of Interfacial Cracks in Bi-Material Components (M.Tech.-2017)	Completed
3	2016	Supervisor	Sustainable manufacturing: Optimization of Single Pass Turning operation Using Meta heuristic Algorithm (B.Tech.-2016)	Completed

Patents: NIL

S. No.	Name	Status

Award and Honors:

S. No.	Title	Activity/Event	Given by	Year

Professional Affiliation:

S. No.	Designation	Organization
1	Life Member (Applied)	Indian Institution of Industrial Engineering (IIIE)