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2. Shubham Verma, Joy Prakash Misra and Meenu Gupta “Study of Temperature Distribution During FSW of Aviation Grade AA6082” Manufacturing Engineering, Chapter 13 , Publisher Springer Singapore, Feb 2019 185-202
3. S. Verma ,M.Gupta ,” Optimization of Spur gear using spider monkey optimization technique”, Optimization Methods in Engineering Lecture notes on Multidisciplinary Industrial Engineering, Chapter 33 Publisher Springer Nature Singapore Pte Ltd. 2021 PP 523-535 First online 6 JUNE 2020
4. Jain P., Meenu (2021) Recognition of Mechanical Tools Using Artificial Neural Network. In: Muzammil M., Chandra A., Kankar P.K., Kumar H. (eds) Recent Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-8704-7_78 (JAN 2021)
5. Kishor Kumar, Meenu. "Optimizing Volume of Helical Compression Spring by Genetic Algorithm and Comparing with Simulated Annealing " , Optimization of Industrial systems, Chapter 12, Wiley Scrivener ,2022 ,147-159 ISBN:9781119750314 Published on 28 july 2022
6. Surinder Kumar, Meenu” Process parameters optimization on Surface roughness in turning of E-Glass UD-GFRP composites using Flower Pollination Algorithm” Evolutionary Optimization of Material Removal Processes 1st Edition CRPC press eBook ISBN 9781003258421 ,Chapter 5, 79- 94 , doi:1201/9781003258421-6 2022-2023
7. Meenu, Surinder Kumar “Experimental Investigation of Surface Roughness for turning of UD-GFRP composite using PSO,GSA,PSOGS 1st Edition CRPC press eBook ISBN 9781003258421 Chapter 1 ,3-20 , DOI:10.1201/9781003258421-2 2022-2023
8. Investigation of MRR in face turning Unidirectional GFRP composites by using Multiple Regression Methodology and an Artificial Neural Network(ANN) “Evolutionary Optimization of Material Removal Processes 1st Edition CRPC press eBook ISBN 9781003258421 ,Chapter 7,129-145 doi:1201/9781003258421-8 2022-2023
9. Meenu, Surinder Kumar” Multi-Response optimization in turning of UD-GFRP composites using Weighted Principal Component Analysis (WPCA) “) “Evolutionary Optimization of Material Removal Processes 1st Edition CRPC press eBook ISBN 9781003258421 ,Chapter4 ,61-78,doi:1201/9781003258421-5 2022-2023

PATENT

Force Measuring Fixture for Friction-Stir Welding (FSW) Machine, Shubham Verma, Joy Prakash Misra, **Meenu Gupta**, **Application No. 201811010067 A, Published, Indian Patent Office, Publication Date: 20th September 2019, Date of Filing: 19th March 2018.**

SYMPOSIUM/SEMINAR ATTENDED

1. National symposium on Instrumentation jointly organized by NPL & Instrument society of India at New Delhi from 22nd -25th Oct 1997.
2. Seminar on Ethics and value education in Science and Technology on Nov 14,2011 by Department of Humanities and Science, NIT, Kurukshetra

WORKSHOP/SUMMER SCHOOL ATTENDED

1. Short term course on Matlab programming for Engineers in civil Engineering Department at NIT, Kurukshetra on 11-15 Dec 2013
2. Workshop on Predictive Mathematical Models in Science and Engineering (PMMSE-2013)held in department of Mathematics, NIT, Kurukshetra on May 24-25
3. Faculty development program of TEQIP-11/AICTE "Recent Developments in Mechanical Engineering from 11th June 2012 to 22nd June 2012 PEC University of Technology.
4. Short term program on “Bio inspired computational techniques” conducted by NITTR Chandigarh from 29th Nov 2010 to 3rd Dec 2010
5. Short term program on “Artificial Neural Network and fuzzy logic” conducted by NITTR Chandigarh from 4 -8 Feb 2008 .
6. Short term program on “Instructional planning and delivery “ conducted by NITTR Chandigarh from 20-24 Oct 2008.
7. AICTE sponsored faculty development program on “Entrepreneurial awarness” organized by the department of Mechanical Engineering,N.I.T, Kurukshetra from June 25,2007 to July 04, 2007.
8. Short term program on “CAD/CAM using CATIA” at NITTR Chandigarh from 30 th May to 3rd Dec 2005.
9. Short term program on “Integrated CAD/CAM at NITTR Chandigarh from 4th July to 8th July 2005.

10. Short term program on “CAD with Master CAM software” at NITTR Chandigarh fro 5th to 9th Dec 2005.
11. National workshop on “Design and Development of Non-Destructive testing equipment for Industrial products” from 29-30 Sept 2005.
12. AICTE-ISTE sponsored two week short term training program on “Advanced manufacturing systems” held at NIT Kurukshetra from 14th July to 26th July 2003.
13. International workshop on “Soft Computing and Intelligent Systems” from 12th-13th Jan 1998.
14. QIP course on “Advanced manufacturing processes” from 21st-26th July 1997.
15. Induction training program organized by Academic staff college Kurukshetra University, Kurukshetra in collaboration with R.E.C Kurukshetra and sponsored by AICTE ,New Delhi from 17th June to 5th July 1996.
16. Short term coure on “Advances in Welding” conducted by IIT, Delhi from May 22 to June 2, 1995.
17. Summer school on “Metal forming Theory and Practice” from 6th t0 18th June 1994.
18. Orientation course on “ Educational technology at P.E.C Chandigarh from 3rd -26th Aug 1992.
19. Professional Development Training Program for Faculty & Administrators of Project Institutions AT IIM VISHAKHAPATANUM FROM 17-19 DEC 2020
20. .Webinar on” Introduction to simulink for system modelling and simulation” on 19 jan 2021

EXPERT LECTURE

2020-2021

1. keynote address and expert lecture on “Applications of artificial intelligence in Mechanical systems” from 29-30 July 2020 Bansal institute of science and technology , Bhopal under TEQIP-III

2022-2023

2. Expert lecture on optimization by Metaheuristic techniques on 20 April 2023 at CGC Jhanzeri

BEST PAPER AWARD

S. No.	Details (Mention Year, Value etc. where relevant)
1.	Best technical paper award A.K. Sehgal, Meenu "Optimization and Analysis of welding operation parameters for achieving the highest weld strength by using Taguchi

	Design of Experiment" in National Conference on Emerging Vistas of Mechanical Engineering in 21 st century 2011
2.	Best technical paper award Simran, Meenu gupta "Optimization of composite leaf spring for weight using Particle Swam Optimization" in the National Conference on Technological development in Mechanical Engineering (TDME-2013) 2013
3.	Thomas Edison Award-2013 Meenu and Surinder Kumar , "Multi-objective optimization of cutting forces in turning of UD-GFRP Composite using Taguchi grey relational analysis", Journal of Mechanical Engineering Photon 2013

Ph.D Completed and in progress

Regd. No. and Reg. Date of the scholar Full time/part time	Title	Co-guide	Remarks
Tushar Jain 1278/10 Par time	Development of Industrial vision system for two-dimensional parts recognition	Dr. H.K. Sardana	In Progress 28 jan 2019 submitted Viva 1 oct 2019
Anuj Shegal 1284/10 Part time	Modeling of machining parameters of S.G. Iron using Response Surface Methodology and ANN		Submitted Viva 13 sept 2018
Surinder Kumar 2K09/Ph.D../NITK 1251-M Full time	Cutting parameters optimization during turning of Glass fiber reinforced composites using Poly crystalline diamond and Carbide tool	Dr. P.S. Satsangi and Dr. H.K.Sardana	Completed
Pradeep Jain Regn. No. Ph.D. /1282 Part time	Object recognition using Artificial Neural Network		In Progress Submitted on 25 june 2019 Resubmitted on 22.3.2021
Dipesh popli 6120022 Dec 2012 Full time	Optimization of process parameters of ultrasonic machining during machining of Nimonic alloy		Viva 13 july 2018 Notification 7 Aug 2018
Pawan Kumar 6120038 08-03-2013 Par time	Optimization of process parameters of Wire EDM using non conventional optimization techniques	Dr Vineet Singla HOD MEUIET,MDU Rohtak	Submitted on 23 Sept 2019
Shubham Verma Regn. No. 6140005	Experimental Investigation on	Dr. Joy Mishra	In Progress

27.1.2014	friction stir welding of Aluminium alloys		15 MAY SUBMITTED Viva on 20 sept 2019
Munna Singh Dahiya 2K19-NITK-Phd-61900003 From 28.3.2023(part time)	Investigation and Optimization of Process Parameters for Friction Stir Welding of Aluminium Lithium Alloy		In progress
Naveen Singh 2K20/NITK/PhD/61900111	Experimental studies on friction stir welding of dissimilar Al alloys		In progress