## **Profile Page**



| Name          | : | Dr Rajiv Kumar Garg  |  |  |
|---------------|---|--|--|--|
| Designation   | : | Professor Hag  |  |  |
| Department    | : | Industrial & Production Engg.  |  |  |
| Qualification | : | <ul> <li>Ph.D. Industrial Engineering and Management (Thapar Institute of Engg and Tech, Patiala)</li> <li>M.E. Hons. Industrial Engg (Thapar Institute of Engg and Tech, Patiala)</li> <li>B.Sc. Engg. Hons. Mechanical Engg (REC Kurukshetra)</li> </ul> |  |  |
| Address       | : | Professor HAG, Department of Industrial and Production<br>Engg.<br>NIT Jalandhar<br>Jalandhar, Punjab - 144011   |  |  |
| Email         | : | gargrk@nitj.ac.in  |  |  |
| Phone         | : | 0181-5037650   |  |  |

#### **Research Interests :**

Supply Chain Management, non-traditional machining, Hybrid machining, welding, Wirecut machining, powder mix EDM, Reliability Management, materials and sustainability.

### **Journal Publications :**

| Year | Journal                             | Publication  |
|------|-------------------------------------|--|
| 2022 | Journal of Materials Processing     | A multi-tier layer-wise thermal management study for long-scale wire-arc |
|      | Tech., Volume 306, August 2022,     | additive manufacturing.  |
|      | Article No 117651                   |  |
| 2022 | JOURNAL OF Engineering              | Surface Modification for EN-19 steel in Powder Mixed Electrical          |
|      | Science and Technology Review,      | Discharge Machining Process due to Complex Material Transfer             |
|      | 15 (4) (2022), 183 - 189            | Phenomena  |
| 2022 | Journal of Asia Business Studies,   | Restorative measures to diminish the covid-19 pandemic effects through   |
|      | © Emerald Publishing Limited        | circular economy enablers for sustainable and resilient supply chain.    |
|      | https://doi.org/10.1108/jabs-05-20  |  |
|      | 21-0217                             |  |
| 2022 | Industrial Robot: the international | Framework development and evaluation of Industry 4.0 technological       |
|      | journal of robotics research and    | aspects towards improving the circular economy-based supply chain.       |
|      | application 49/3 (2022) 555–581 ©   |  |
|      | Emerald Publishing Limited [ISSN    |  |
|      | 0143-991X]                          |  |

| 2021 | International Journal of Computer              | A multi-objective optimization of TIG welding parameters using            |
|------|--|---|
| 2021 | -  |   |
|      | aided Engineering and Technology               | response surface methodology  |
|      |  |   |
|      | https://dx.doi.org/10.1504/IJCAET              |   |
|      | .2021.115363 2021 Vol.14 No.4,                 |   |
|      | pp.575 - 590                                   |   |
| 2021 | Advances in Manufacturing and                  | Commencement of green supply chain management barriers: a case of         |
|      | Industrial Engineering. Lecture                | rubber industry.  |
|      | Notes in Mechanical Engineering.               |   |
|      | Springer, Singapore pp. 685-699.               |   |
|      | https://doi.org/10.1007/978-981-15             |   |
|      | -8542-5_59                                     |   |
| 2021 | Journal of Cleaner Production                  | Sustainable oil selection for cleaner production in Indian foundry        |
|      | https://doi.org/10.1016/j.jclepro.20           | industries: A three phase integrated decision-making framework            |
|      | 21.127827 313 (2021) 127827                    |   |
| 2021 | International Journal of                       | Conception of circular economy obstacles in supply chain context: A case  |
| 2021 | Productivity and Performance                   | of rubber industry.   |
|      | Management,                                    | or rubber muusuy.   |
|      | ahead-of-p(ahead-of-print)                     |   |
| 2020 | Rapid Prototyping Journal                      | Multi-physics continuum modelling approaches for metal powder             |
| 2020 |  | additive manufacturing  |
| 2020 | Silicon  |   |
| 2020 | Silicon  | Hole Quality Measures in Rotary Ultrasonic Drilling of Silicon Dioxide    |
| 2020 |  | (SiO2): Investigation and Modeling through Designed Experiment            |
| 2020 | Archives of computational                      | Measurement and mitigation of residual stress in wire-arc additive        |
|      | methods in Engineering                         | manufacturing: A review of macro-scale continuum modelling approach       |
| 2020 | Recent Advances in Mechanical                  | Assessment of barriers of green supply chain management using             |
|      | Engineering. Lecture Notes in                  | structural equation modeling.   |
|      | Mechanical Engineering. Springer,              |   |
|      | Singapore                                      |   |
|      | https://doi.org/10.1007/978-981-15             |   |
|      | -8704-7_55 pp. 441–452.                        |   |
| 2019 | Advances in Reliability Analysis               | Reliability analysis of complex repairable systems in thermal power plant |
|      | and its Applications (Springer                 |   |
|      | Series in Reliability Engineering)             |   |
| 2018 | Uncertain Supply Chain                         | Supply chain collaboration: A state-of-the-art literature review          |
|      | Management, Vol. 6, pp 149-180                 |   |
| 2018 | Uncertain Supply Chain                         | Investigating the interactions among benefits of information sharing in   |
|      | Management, Vol. 62, pp 255-270                | manufacturing supply chain  |
| 2018 | Benchmarking: An International                 | Framework to precede collaboration in supply chain                        |
|      | Journal  |   |
| 2018 | International Journal of Quality &             | Availability analysis of distillery plant using petri nets                |
|      | Reliability Management,                        |   |
|      | https://doi.org/10.1108/IJQRM-06-              |   |
|      | 2017-0108                                      |   |
| 2018 | Journal of Uncertain Supply Chain              | Supply chain collaboration: A state-of-the-art literature review.         |
| 2010 | Management, volume 6, Issue 2,                 | Supply shall condition. It state of the art filefature fevrew.            |
|      | Pp. 149-180.                                   |   |
| 2018 | Journal of Enterprise Information              | Supply chain collaboration and firm's performance: The critical role of   |
| 2018 | -  |   |
|      | Management, Vol. 31 Iss 3 pp.                  | information sharing and trust   |
| 0010 | 358-379  |   |
| 2018 | Journal of Uncertain Supply Chain              | Investigating the interactions among benefits of information sharing in   |
|      | Management, volume 6, Issue 3,<br>Pp. 255-270. | manufacturing supply chain  |
|      |  |   |

| 2017 | International Journal of Reliability      | A methodology to determine maintenance criticality using               |
|------|---|--|
| 2017 | and Safety, Vol. 11 (3-4), pp             | Dempster–Shafer theory   |
|      | 182-199                                   | Dempster-Sharer meory  |
| 2017 |   | Process normation antimination of any motal and molding on IS20(2 mild |
| 2017 | Journal of Manufacturing                  | Process parameter optimization of gas metal arc welding on IS2062 mild |
| 2017 | Processes, Vol. 25, pp 296-305            | steel using response surface methodology                               |
| 2017 | Journal of Manufacturing                  | Process parameter Optimization of Gas Metal Arc Welding on IS:2062     |
|      | Processes, Volume 25, Pp 296–30           | Mild Steel using Response Surface Methodology"                         |
| 2017 | Int. J. Logistics Systems and             | Barrier analysis for green supply chain management implementation in   |
|      | Management, Vol. 27, No. 2, Pp<br>225-259 | power industry using ISM   |
| 2016 | Int. J. of Industrial and Systems         | Literature Review of multi-aspect Research Works carried out on the    |
|      | Engineering, Vol 23, No 2, pp             | concept and implementation of GSCM                                     |
|      | 233-253.                                  |  |
| 2016 | International Journal of                  | An investigation into surface roughness of workpiece produced by       |
|      | Manufacturing Research, Vol 11,           | chromium powder suspended dielectric in PMEDM process                  |
|      | No 2, Pp 189-208                          |  |
| 2016 | Journal of manufacturing                  | Mathematical modelling of effect of polarity on welding bead geometry  |
| 2010 | Processes, Vol 21, Pp 14-22               | in submerged arc welding   |
| 2016 | The Electricity Journal, Vol 29(4),       | Implementation of green supply chain management in India: Bottlenecks  |
| 2010 | Pp 43-50                                  | and remedies   |
| 2015 | International Journal of                  | "Optimization of Response Parameters for Polarity in Submerged Arc     |
| 2015 | Multidiscipline Modeling in               | Welding"   |
|      |   | weiding  |
|      | Materials and Structures, Vol. 11,        |  |
| 2015 | Issue 4                                   |  |
| 2015 | European journal of advances in           | Analytic Network Process (ANP): An approach for supplier selection in  |
|      | engineering and technology, pp<br>83-89   | an automobile organization   |
| 2015 | International Journal of Advanced         | Parametric modeling and optimization for wire electrical discharge     |
|      | Manufacturing Technology, Vol             | machining of Inconel 718 using response surface methodology            |
|      | 79, 1(4), pp 31-47                        |  |
| 2015 | International Journal of                  | Technological Innovations in Machining of Inconel 718: A State of the  |
|      | Manufacturing, Materials, and             | Art  |
|      | Mechanical Engineering, (Francis          |  |
|      | and Taylor), Vol 5, Issue 2, pp           |  |
|      | 17-43                                     |  |
| 2015 | Journal of Manufacturing                  | GSCM: practices, trends and prospects in Indian context                |
|      | Technology Management                     | r  |
|      | (Emerald), Vol. 26 Issue 6, pp.889        |  |
|      | - 910                                     |  |
| 2015 | International Journal of                  | Optimization of Response Parameters for Polarity in Submerged arc      |
| 2015 | Multidiscipline Modeling in               | Welding"   |
|      | Materials and Structures. Vol 11,         | in cruing  |
|      | issue 4, pp 494-506                       |  |
| 2015 |   | Analytic Natwork Process (AND): An anneagh for symplice selection in   |
| 2015 | European journal of advances in           | Analytic Network Process (ANP): An approach for supplier selection in  |
|      | engineering and technology, Vol 2,        | an automobile organization   |
| -    | issue 9, pp 83-89                         |  |
| 2015 | VIVECHAN-International Journal            | A Comprehensive Review of Cost of Quality                              |
|      | of Research, Vol 6, Issue 1, pp           |  |
|      | 70-88                                     |  |

| 2014 | International Journal of          | A Strategic Level Model for Supply Chain of an Automotive Industry:    |
|------|-----------------------------------|--|
|      | Engineering and Management        | Formulation and Solution Approach                                      |
|      | Research, ISSN No.: 2250-0758,    |  |
|      | Volume-4, Issue-1, Page Number:   |  |
|      | 51-57                             |  |
| 2014 | International Journal of          | Literature Review of multi-aspect Research Works carried out on the    |
|      | Engineering (IJISE)               | concept and implementation of GSCM                                     |
| 2014 | Advanced Mechanics and            | Effect of wire materials on cutting performance of WEDM for machining  |
|      | Materials Journal (Springer), Vol | of Inconel superalloy  |
|      | 624, pp 124-128                   |  |
| 2014 | International Journal of          | A Strategic Level Model for Supply Chain of an Automotive Industry:    |
|      | Engineering and Management        | Formulation and Solution Approach                                      |
|      | Research, Volume-4, Issue-1, pp   |  |
|      | 51-57                             |  |
| 2014 | Applied Mechanics and Materials,  | Effect of Wire Materials on Cutting Performance of WEDM for            |
|      | Volume 624, pp 124-128            | Machining of Inconel Superalloys                                       |
| 2014 | Journal of Environmental Research | Categorization of Cost of Quality- A Study in Engineering Industry     |
|      | And Development, Vol. 8 No. 3A,   |  |
|      | pp 846-849                        |  |
| 2013 | Emerald Journal of Measuring      | Trust among supply chain partners: A Review                            |
|      | Business Excellence, Vol. 17      |  |
|      | Issue: 01, pp 51-71               |  |
| 2013 | Advanced Materials Research,      | Parametric optimization of PMEDM process with chromium powder          |
|      | Vol. 816-817, Pp 23-27            | suspended dielectric for triangular electrodes                         |
| 2012 | International Journal of          | Parametric Effect on Mechanical Properties in Submerged arc welding    |
|      | Engineering Science and           | process - A review   |
|      | Technology (IJEST) ISSN :         | r  |
|      | 0975-5462, Vol. 4 No.02, pp       |  |
|      | 783-793                           |  |
| 2012 | Advanced Materials Research       | Parametric Optimization of PMEDM Process with Chromium Powder          |
|      | Journal, Vols. 383-390, pp        | Suspended Dielectric for Minimum Surface Roughness and Maximum         |
|      | 3202-3206                         | MRR  |
| 2012 | International Journal of          | An investigation into the effect of Nickel micro powder suspended      |
|      | Mechatronics and Manufacturing    | dielectric and varying triangular shape electrodes on EDM performance  |
|      | Systems, Vol. 5, No. 1, pp 66-92  | measures of EN-19 steel  |
| 2012 | Int. J. Business Continuity and   | Continuity and change forces in Indian automobile industry: a case of  |
|      | Risk Management, Vol 3, No 2, pp  | tractor company  |
|      | 99-116                            |  |
| 2012 | International Journal of IT,      | OEE Improvement by TPM Implementation: A Case Study                    |
|      | Engineering and Applied Sciences  |  |
|      | Research (IJIEASR), Volume 1,     |  |
|      | No. 1, pp 113-122                 |  |
| 2012 | International Journal Of          | Evolution and Development of Bullwhip Effect and its Contribution      |
|      | Management & Information          | towards Supply Chain Management: A Literature Review                   |
|      | Technology (IJMIT), Vol 1, No 3,  |  |
|      | pp 89-98                          |  |
| 2011 | Journal of Engineering and        | The effect of Nickel micro-powder suspended dielectric on EDM          |
|      | Applied Sciences, Vol 6, Issue 1, | performance measures of EN-19 steel                                    |
|      | pp 27-37                          |  |
| 2011 | Journal of Engineering and        | Parametric optimization of PMEDM process with Nickel powder            |
|      | Applied Sciences ISSN:            | suspended dielectric and varying triangular shapes electrodes on EN-19 |
|      | 1816-949X, Vol 6, Issue 2, pp     | steel.   |
|      |                                   |  |

| 2011 | Journal of Engineering Science      | An overview of technology and research in electrode design and         |
|------|-------------------------------------|--|
| -    | and Technology Review, Vol4,        | manufacturing in sinking electrical discharge machining                |
|      | Issue 3, pp 342-349                 |  |
| 2011 | International journal of Applied    | Experimental investigation and modelling of PMEDM process with         |
|      | Science and Engineering (IJASE),    | Chromium powder suspended dielectric                                   |
|      | Vol 9, Issue 2, pp 65-81            |  |
| 2011 | Journal of Tribology - Materials,   | Effect of chromium powder suspended dielectric on surface roughness in |
|      | Surfaces & Interfaces, Volume 5,    | PMEDM process  |
|      | Number 4, pp. 165-171               |  |
| 2010 | Int. J. Business Continuity and     | Status of Continuity forces in Indian Industry: A Survey               |
|      | Risk Management, Vol-1, No 2, pp    |  |
|      | 166-186.                            |  |
| 2010 | The International Journal of        | Review of research work in sinking EDM and WEDM on metal matrix        |
|      | Advanced Manufacturing              | composite materials  |
|      | Technology (IJMT).                  |  |
|      | DOI:10.1007/s00170-0102534-5,       |  |
|      | Vol 50, No 5-8, pp 611-624          |  |
| 2010 | International Journal of Minerals   | MRR Improvement in sinking electrical discharge machining: A review    |
|      | and Materials Characterization and  |  |
|      | Engineering, Vol 9, No 8, pp        |  |
|      | 709-739                             |  |
| 2010 | Journal of Manufacturing            | Experimental investigations of electrical discharge machining of high  |
|      | Engineering, Vol 5, No 1, pp 5-10   | carbon high chromium steel   |
| 2010 | Indian Journal of Engineering &     | Analysis & Evaluation of Heat Affected Zones in Electrical discharge   |
|      | Material Science (IJEMS), Vol.      | Machining of EN-31 Die steel.  |
|      | 17, pp 91-98                        |  |
| 2009 | International Journal of Tribology- | Structure Analysis of Electro-discharge Machined Surfaces of EN-31     |
|      | Material Surfaces & Interfaces,     | Tool Steel.  |
|      | Vol. 3, pp 134-145                  |  |
| 2008 | International Journal of Surface    | When Shot Peening Doesn't Enhance Fatigue Life of Leaf Springs         |
|      | Science and Engineering, Vol. 2,    |  |
|      | Nos. 3/4, Pp 281-293                |  |
| 2008 | Global Journal of Flexible Systems  | Impact of Change Management on Competitiveness: A Study of Small       |
|      | Management, Vol. 9, Nos. 2 & 3,     | Scale Industry in Punjab   |
|      | pp 65-70                            |  |
| 2007 | Global Journal of Flexible Systems  | Managing Change – A Case of Indian Engineering Industry,               |
|      | Management, Vol. 8, Nos 1 & 2,      |  |
|      | pp 65-79.                           |  |
| 2006 | Global Journal of Flexible Systems  | Management of change – a comprehensive review                          |
|      | management, Vol. 7, Number 1&2,     |  |
|      | pp 25-36                            |  |
| 2006 | Industrial Engineering Journal of   | Opportunities and Challenges for Indian Automotive Industry by Recent  |
|      | IIIE, Special Issue, 2006, pp       | Developments   |
|      | 02-06                               |  |
| 2005 | Global Journal of Flexible Systems  | Status of Socio-technical change in Indian Automobile Industry – A     |
|      | management, Volume 6, No 3 & 4,     | Longitudinal Study   |
|      | pp 25-36.                           |  |
| 2005 | Industrial Engineering Journal of   | Getting Success through Organizational Change and Customer             |
|      | IIIE, Vol 4, No 7, pp 20-33         | Relationship Management  |
| 2002 | Global Journal of Flexible Systems  | Managing change for Competitiveness                                    |
|      |                                     |  |
|      | management, No 3, Volume 4, pp      |  |

| International Journal of Quality & | Availability analysis of distillery plant using petri nets |
|------------------------------------|--|
| Reliability Management,            |  |
| https://doi.org/10.1108/IJQRM-06-  |  |
| 2017-0108                          |  |

### **Conference Publications :**

| Year | Conference   | Publication  |
|------|--|--|
| 2022 | Proceedings of the ASME 2022 International           | Environmental sustainability of additive               |
|      | Mechanical Engineering Congress and Exposition       | manufacturing: a case study of Indian manufacturing    |
|      | IMECE2022 at Columbus, Ohio                          | industry   |
| 2022 | Fourth International Conference on Materials Science | Experimental and analytical investigation into Cutting |
|      | and Manufacturing Technology 2022 (ICMSMT            | forces during turning of EN-31 Steel in different      |
|      | 2022) jointly organized by Akshaya College of        | machining conditions                                   |
|      | Engineering and Technology (Academic Partner),       |  |
|      | Coimbatore, and Diligentec Solutions (Industry       |  |
|      | Partner), Coimbatore, Tamil Nadu.                    |  |
| 2022 | 2022 IMECE @ International Mechanical                | Environmental Sustainability of Additive               |
|      | Engineering Congress and Exposition organized by     | Manufacturing: A Case Study of Indian                  |
|      | ASME at Columbus, Ohio                               | Manufacturing Industry                                 |
| 2022 | 20th ISME Conference on Advances in Mechanical       | Environmental Sustainability of Additive               |
|      | Engineering At IIT Rupnagar                          | Manufacturing: A case of Indian manufacturing          |
|      |  | industry   |
| 2022 | "Advances in Mechanical Engineering-2022"            | Research Progress in Life Cycle Assessment for         |
|      | (ICAME-2022) At G H Raisoni College of               | Sustainable Manufacturing Industries: A Bibliometric   |
|      | Engineering, Nagpur.                                 | Analysis   |
| 2022 | "Advances in Mechanical Engineering-2022"            | Experimental investigation and optimization of         |
|      | (ICAME-2022) At G H Raisoni College of               | WEDM process for AISI 420 stainless steel              |
|      | Engineering, Nagpur.                                 |  |
| 2021 | 2nd International Conference on Industrial and       | Optimization of Titanium Grade-5(Ti6Al4V) alloy on     |
|      | Manufacturing Systems (CIMS 2021) at PEC             | Die Sinking EDM by using Copper Tungsten               |
|      | Chandigarh   | electrode  |
| 2020 | International Conference on Industrial and           | Hurdle Assessment for the Implementation of Circular   |
|      | Manufacturing Systems (CIMS-2020)                    | Economy Notions  |
| 2020 | International Conference on Industrial and           | Exploring the Interaction among the Barriers of        |
|      | Manufacturing Systems (CIMS-2020)                    | Circular Supply Chain: A Case of Indian Rubber         |
|      |  | Industry.  |
| 2020 | International Conference on Industrial and           | Prioritizing Circular Economy Performance              |
|      | Manufacturing Systems (CIMS-2020)                    | Indicators: A Case of Indian Rubber Industries.        |
| 2019 | International Conference on Industrial and           | An application of fuzzy FMEA for improving service     |
|      | Manufacturing System                                 | quality in trauma emergency centre                     |
| 2019 | International Conference on Industrial and           | Commencement of green supply chain management          |
|      | Manufacturing System                                 | barriers: A case of Rubber industry                    |
| 2019 | International Conference on Industrial and           | Hurdle assessment for the implementation of circular   |
|      | Manufacturing System                                 | economy  |
| 2019 | International Conference on Industrial and           | Exploring the interaction among the barriers of        |
|      | Manufacturing System                                 | circular supply chain: A case of Indian Rubber         |
|      |  | Industry   |
| 2019 | International Conference on Innovative Technologies  | Assessment of barriers of green supply chain           |
|      | in Mechanical Engineering (ITME-2019)                | management using SEM                                   |
| 2019 | 4th International Conference on Advanced Production  | Commencement of green supply chain management          |
|      | and Industrial Engineering (ICAPIE-2019)             | barriers: A case of Rubber industry                    |

| 2014 | 2014 National Conference on "Latest development in  | Gaurav Tejpal, R K Garg and Anish Sachdeva,          |
|------|---|--|
|      | Science, Engineering and Management at ACET         | "Impact of information technology on supply chain    |
|      | Amritsar", pp 1-9                                   | partners relationship in Indian industries"          |
| 2014 | International Conference on Mechatronics, Materials | R. K. Garg, Vivek Aggarwal and Sehijpal Singh,       |
|      | and Manufacturing (ICMMM 2014) at Chengdu,          | "Effect of wire materials on cutting performance of  |
|      | China   | WEDM for machining of Inconel superalloy"            |
| 2014 | National Conference on "Advances in Manufacturing   | Sheetal Soda, Anish Sachdeva and R K Garg, "Green    |
|      | Systems" CAMS-2014 at SBSCET Ferozpur               | supply chain management practices in Indian context" |
| 2014 | National Conference on "Advances in Manufacturing   | Harjeet Singh, R K Garg and Anish Sachdeva,          |
|      | Systems" CAMS-2014 at SBSCET Ferozpur               | "Warehouse location problem using Hub model"         |

# **Book/Chapter Publications :**

| Туре        | Title                                   | Publisher        | Authors           | ISBN/ISS  | Year |
|-------------|---|------------------|-------------------|-----------|------|
|             |   |                  |                   | N No.     |      |
| Proceedings | Proceedings of 5th International        | GLOGIFT          | Dr Sushil, Dr R   | 978-93-83 | 2018 |
|             | Conference of Production and Industrial | Socirety New     | K Garg, Dr Anish  | 893-07-2  |      |
|             | Engineering (CPIE-2018) in academic     | Delhi            | Sachdeva, Dr      |           |      |
|             | collaboration with GIFT Society of      |                  | Ajay Gupta, Dr    |           |      |
|             | Flexible Systems Management from June   |                  | Rajeev Trehan     |           |      |
|             | 26-29, 2018 at Bangkok                  |                  | and Dr Vishal     |           |      |
|             |   |                  | Sharma            |           |      |
| Chapter     | Green Supply chain management driver    | Springer         | Sushil, T P Singh | 978-981-1 | 2017 |
|             | analysis using TISM contributed in the  |                  | and Kulkarni      | 0-4887-6  |      |
|             | book titled "Flexibility in Resource    |                  |                   |           |      |
|             | Management"                             |                  |                   |           |      |
| Text Book   | A Text Book of Production Planning and  | Dhanpat Rai and  | Rajiv Kumar       |           | 2000 |
|             | Control Management                      | Sons, New Delhi  | Garg and V        |           |      |
|             |   |                  | Sharma            |           |      |
| Text Book   | Engineering Drawing                     | Dhanpat Rai and  | M L Aggarwal      |           | 1998 |
|             |   | Sons, New Delhi  | and Rajiv Kumar   |           |      |
|             |   |                  | Garg              |           |      |
| Text Book   | Machine Drawing                         | Dhanpat Rai and  | M L Aggarwal      |           | 1998 |
|             |   | Sons, New Delhi  | and Rajiv Kumar   |           |      |
|             |   |                  | Garg              |           |      |
| Text Book   | Design and Planning of Production       | Kohli Publishers | Rajiv Kumar       |           | 1994 |
|             | Systems                                 | Delhi            | Garg, M Adithan   |           |      |
|             |   |                  | and S S Banwait   |           |      |

## PhD Supervised :

| Scholar Name   | Research Topic                                  | Status  | Year | Co-Supervisor       |
|----------------|---|---------|------|---------------------|
| Mukesh Kumar   | Investigations on nanoparticle embedded phase   | Awarded | 2022 | Dr Anish Sachdeva   |
|                | change material on performance of flat plate    |         |      |                     |
|                | collector                                       |         |      |                     |
| Shekhar        | Modelling and analysis of metal additive        | Awarded | 2022 | Dr Anish Sachdeva   |
| Srivastava     | manufacturing process using FEM approach        |         |      |                     |
| Ankur Behl     | Performance modelling of a distillery plant in  | Awarded | 2019 | Prof A Sachdeva     |
|                | presence of uncertain and imprecise information |         |      |                     |
| Harjit Singh   | Impact of information sharing of supply chain   | awarded | 2019 | Prof A Sachdeva     |
|                | management                                      |         |      |                     |
| Vivek Aggarwal | Parametric studies on machining characteristics | Awarded | 2016 | Prof Sehijpal Singh |
|                | of inconel with WEDM                            |         |      |                     |

| Ravinder Pal  | Effect of polarity in submerged arc welding       | Awarded | 2016 |                        |
|---------------|---|---------|------|------------------------|
| Singh         |   |         |      |                        |
| Sheetal Soda  | Optimizing organizational gains by implementing   | Awarded | 2016 | Prof A Sachdeva        |
|               | green supply chain management                     |         |      |                        |
| Gaurav Tejpal | Impact of Flexibility, Trust and Information      | Awarded | 2015 | Prof A Sachdeva        |
|               | Technology for enhancing Supply Chain             |         |      |                        |
|               | Performance for Indian Industries                 |         |      |                        |
| Amit Gupta    | Design and modeling of supply chain of an         | Awarded | 2015 | Prof O P Singh         |
|               | automobile organization                           |         |      |                        |
| Rajeev Trehan | Study of Cost of Quality Practices in Indian      | Awarded | 2015 | Prof A Sachdeva        |
|               | Engineering Industry                              |         |      |                        |
| Sumit Jain    | Managing Continuity and Change in Indian          | Awarded | 2013 | Prof Sushil, IIT Delhi |
|               | Industry  |         |      |                        |
| Kuldeep Ojha  | Experimental study of powder mixed                | Awarded | 2012 | Dr K K Singh           |
|               | electro-discharge machining process for different |         |      |                        |
|               | tool shape designs                                |         |      |                        |