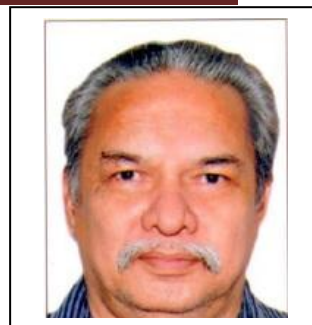


**National Institute of Technology, Tiruchirappalli:
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Curriculum Vitae



- | | |
|--|---|
| 1. Name | Dr. A. Noorul Haq |
| 2. Designation: | Professor – HAG |
| 3. Office Address: | Room no: MTB-204,
Department of Production Engineering,
NIT Tiruchirappalli |
| 4. Telephone (Direct) (Optional): | +91 9443193311 |
| Telephone : | |
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| Mobile (Optional): +91 9443193311 | |
| 5. Email (Primary): anhaq@nitt.edu | Email (Secondary) : anhaq53@yahoo.com |
| 6. Field(s) of Specialization: | Operations management, Industrial
engineering, Optimization techniques,
Suplly chain management |

7. Employment Profile

Job Title	Employer	From	To
Assoc. Lecturer/Lecturer	Government college of Technology, Coimbatore	Nov 1976	May1983
Lecturer	Regional Engineering College, Tiruchirappalli	Jun 1983	Jun 1996
Assistant Professor	Regional Engineering College, Tiruchirappalli	July 1996	Mar 2005
Professor	National Institute Of Technology, Tiruchirappalli	Apr 2005	Mar 2011
Professor - HAG	National Institute Of Technology, Tiruchirappalli	Apr 2011	Till date

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
SSLC	State Board	1969	1st class	Algebra, geometry
PUC	State Board	1970	2nd Class	Physics, chemistry, Mathematics
B.E	Annamalai University	1975	1st class	Mechanical Engineering
PGDIE (Post Graduate Diploma in Industrial Engineering)	University Of Madras	1976	1st class	Industrial Engineering
M.E.	University Of Madras	1981	1st class	Mechanical Engineering
Ph.D.	Indian Institute Of Technology, Delhi	1991		Manufacturing Management

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Instituti on	From	To
Dean-Faculty Welfare	NIT, Tiruchirappalli	2012	2015
Dean-Administration	NIT, Tiruchirappalli	2005	2007
Head of the Department	Dept of Production Engineering, NIT-Tiruchirappalli	2002	2005
Assistant Training and Placement Officer	REC, Tiruchirappalli	1997	2000
Deputy Controller of Examinations	REC, Tiruchirappalli	1992	1995
Chairman for Estate welfare committee	NIT, Tiruchirappalli	2003	2005
Chief Vigilance Officer	NIT, Tiruchirappalli	2011	2012
QIP-coordinator at NIT	NIT, Tiruchirappalli	2010	2012
Faculty selection committee member	NIT, Tiruchirappalli	2011	2015
Non Faculty selection committee member	NIT, Tiruchirappalli	2011	2015

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Expert member in NBA accreditation Committee.	10 Institutions in UP, Haryana, Madhya Pradesh, Maharashtra, Gujarat and Utharkand	2008	2016
Expert member for AICTE - Inspection Committee	Many institutions in Uthar Pradesh, Haryana, Punjap, Chandigarh, Madhya Pradesh, Rajastan, Karnataka, Andra Pradesh, Kerala, Pudhucherry and Tamil Nadu.	2006	2016
AICTE nominee for staff selection committee	PSG Tech, Coimbatore TCE, Madurai	2013	2015
Board of studies member for various universities and Autonomous Engineering Colleges	Anna university, Chennai, GCT-Coimbatore, PSG Tech – Coimbatore, Annamalai university.	2015 2014 2010 2014	2016 2016 2012 2016

11. Awards, Associateships etc: -

12. Fellowships: -

13. Details of Academic Work

(i) Curriculum Development

B.Tech Production Engineering	– Curriculum and syllabus design
B.Tech Industrial and Systems engineering	– Curriculum and syllabus design
M.Tech Industrial Engineering	– Curriculum and syllabus design

(ii) Courses taught at Postgraduate and Undergraduate levels

UG courses –	Resource Management Techniques
	Production Planning and Control
	Operations Management
	Plant layout and Material Handling
	Work design and Facilities Planning
	Quality, Reliability and Maintenance Engineering
PG Courses –	Advanced Operations Research
	Work Design and Ergonomics
	Manufacturing Management
	Terro Technology

(iii) Projects guided at Postgraduate level

Every year 2 – 3 projects guided for post graduate students from 1995 - 2016

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Performa for CV of Faculty/ Staff Members

14. Details of Major R&D Projects

Title of Project	Funding Agency	Status
		Ongoing/ Completed
Performance analysis of operator	UGC sponsored	Completed
Technology for condition monitoring	MHRD sponsored	Completed
Production Optimization and Supply Chain Management of Inertial Navigation Systems being produced at Multiple Work centers	DRDL, Hyderabad	Completed
Reverse Engineering for Cold Isostatic Press and Intensifier un it and Creation of Production Drawings	HAPP, Trichy	Completed
Improvements on mechanical properties of cryorolled precipitation hardenable AA 2219 alloy by friction stir welding process	DRDL sponsored	Ongoing

15. Number of PhDs guided

S.No.	Name of the PhD Scholar	Title of PhD Thesis	Role	Year of Award
1	M.G. Venugopalan	Ergonomic Evaluation Of Heat Stress On Workers In South Indian Industrial Environmnets	Supervisor	2004
2	G. Mohankumar	Modelling And Analysis Of Aggregate Production Scheduling For Optimization Using Metaheuristics	Supervisor	2005
3	T.Karthikeyan	Modelling And Analysis Of Scheduling System In Computer Integrated Manufacturing	Supervisor	2005
4	D.Ravindran	Heuristic Approach To Scheduling Problems	Supervisor	2005
5	P.Sathiya	Friction Welding F Similar Stainless Steels And Evaluation Of Processed Joints	Supervisor	2006
6	K.Sivakumar	Optimal Machining Tolerance Allocation Of Machine Elements Through Intelligent Techniques	Supervisor	2006
7	P.Venkumar	Cell Formation Using Modified Artificial Neural Networks In Cellular Manufacturing Systems	Supervisor	2006
8	G.Kannan	Modelling And Analysis Of Forward,Reverse And Closed Loop Supply Chain Management	Supervisor	2007
9	T.Tamizharasan	Analysis And Multi Objective Optimization In Hard Dry Machining Of Hardened Shafts,Axles And Pins	Supervisor	2007
10	K.Balasubramanian	Multiple Parallel Flow Line Scheduling Using Metaheuristics	Supervisor	2008
11	T.Radharamanan	Invsetigations Of The Applications Of Artificial Neural Network And Evolutionary Algorithms For Flow Shop Scheduling Problems	Supervisor	2008

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

12	N.Azhagesan	Experimental Studies On Heat Transfer And Pressure Drop In Bubble Finned Plate Heat Exchangers	Supervisor	2008
13	M.Saravanan	Scatter Search Algorithms For Scheduling Of Various Manufacturing Systems	Supervisor	2008
14	A.Naveensait	Experimental Investigation And Multi Objective Optimization Of Machining Parameters Of Gfrp Pipes	Supervisor	2008
15	P.Murugesan	Analysis And Selection Of Third Party Reverse Logistics Provider	Supervisor	2009
16	K.Panneerselvam	Experimental Investigation On Thermoplastic/Thermoplastic Composite Joints And Optimization Of Process Parameters	Supervisor	2009
17	J.Jeyaprakash	Meta Heuristic Based Mixed Model Assembly Line Balancing	Supervisor	2009
18	S.Guharaja	Optimization of Casting Process Parameters using Taguchi Method and Evolutionary Heuristics	Supervisor	2009
19	P.Marimuthu	Experimental Study For Optimal Setting Of Machining Parameters For Drilling Al/SiC Metal Matrix Composite	Supervisor	2009
20	A.Senthilkumar	Performance Evaluation Of Supply Chain Designs In Manufacturing Industries	Supervisor	2010
21	K.Sudhagar	Investigations Of Intelligent Path Tracking Controllers For Truck Like Mobile Robot	Supervisor	2010
22	A.Gnanavelbabu	Simultaneous Scheduling Of Flexible Manufacturing System Components Using Non Traditional Optimization Techniques	Supervisor	2010
23	P.Sasikumar	Modelling And Analysis Of Product Recovery Supply Chain Network	Supervisor	2010
24	K.Mathiyazhagan	Analysis Of Pressures And Barriers For The Implemenation Of Green Supply Chain Management	Supervisor	2014
25	B.Varma	Analysis of lean, agile and leagile supply chain enablers for food industry	Supervisor	2016

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Level of Event (International/ National/ Local)	Role	Event Organized by	Venue
September-2008	International	Keynote speaker	The 6 th International Conference on manufacturing Research 08, Brunel University, West London, September-2008, pp. 749-757	Brunel University, West London
2009	International	Keynote speaker	Society of Supply Chain Management, London	Taiwan
2010	International	Keynote speaker	Society of Supply Chain Management, London	Hongkong
Oct. 6-7, 2013	International	Keynote speaker	4th International Conference on Mechanical, Production and Automobile Engineering (ICMPAE'2013), Planetary Scientific Research Centre Private Limited	Dubai (UAE)

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

(a) Conference Coordinated:

1. Chairperson for the 6th International Conference on Supply Chain Management & Information Systems (SCMIS-2008) conducted in association with University of East London at NIT, Tiruchirappalli during 07-10, December 2008
2. Convenor for National Conference on “Modeling and Analysis of Production Systems” conducted during 22 & 23, January 2004 and the conference was sponsored by AICTE and DST.

(b) Short term courses conducted

Sl.No	Details
1	Coordinated a AICTE-MHRD sponsored two weeks summer school on Advances in Materials Processing, 30th June – 12th July 2008.
2	Coordinated a workshop on Radiant Energy Welding Processes (TEQIP-TDP), 15th March 2008.
3	Coordinated a workshop on Application of IT tools in Manufacturing (TEQIP), 11-12 March 2008.
4	Coordinated a workshop on Laser Processing of Materials (TEQIP), 6-7 March 2008.
5	Coordinated a workshop on Enterprise Resource Planning (TEQIP-TDP), 5th March 2008.
6	Coordinated a workshop on Entrepreneurship skills for engineers (TEQIP-TDP), 22nd February 2008
7	Finite Element Analysis of Welding Processes, 24-25 January 2008
8	Recent advances in Logistics and Supply Chain Management (QIP), 2007.
9	Recent Trends in Supply Chain Management, 26-27 May 2006

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

10	Coordinated an AICTE-ISTE short term training programme on Emerging Trends in CAD/CAM – Theory and Practice during December 20-31, 2004.
11	Coordinated an AICTE-ISTE short term training programme on Recent Trends in Modeling and Analysis of Manufacturing Systems during December 16-27, 2002
12	Coordinated an AICTE-ISTE short term training programme on Modeling and Simulation of Manufacturing Systems during December 6-17, 1999.
13	Coordinated a workshop on ERP solutions for small and medium scale industries during September 24-25, 1998.
14	Coordinated a short term course on CAD/CAPP/CAM during November 4-6, 1992.

18. Invited Talks delivered

Topic	Date	Inviting Organization
Supply chain Management	2008	Brunel University, London, UK
Supply chain Management	2009	Society of Supply Cahain Management and Information Systems, UK
Supply chain Management	2010	Society of Supply Cahain Management and Information Systems, UK
Green Supply Chain Management	2013	Planetary Scientific Research Centre Private Limited

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	AMIE	F – 114460 - 6
Life Member	Indian Society for Technical Education	

20. Academic Foreign Visits

Country	Programme
London	International Conference on manufacturing Research 08, Brunel University, West London, UK
Taiwan	International Conference on manufacturing Research 2009
HongKong	International Conference on manufacturing Research 2010
Dubai	4th International Conference on Mechanical, Production and Automobile Engineering (ICMPAE'2013)

National Institute of Technology, Tiruchirappalli:

Performa for CV of Faculty/ Staff Members

21. Publications

(A) Refereed Research Journals:

List of publications

1. Sathiya, P., Babu, K.K., Panneerselvam, K., **Haq, A.N.**, Mastanaiah, P., Murthy, C.S. and Sundarrajan, S., 2016. Experimental Investigation on Friction Stir Welding of Cryorolled AA2219 Aluminium Alloy Joints. *Surface Review and Letters*.
2. Gurunathan, T. and **Haq, A.N.**, 2016. Physical Sizing of Discontinuities in Helium Leak Tests: An Approach to Compare Leakage Rates and Leak Diameters. *Materials Evaluation*, 74(2), pp.145-150.
3. Mathiyazhagan, K., **Haq, A.N.** and Baxi, V. (2016) ‘Analysing the barriers for the adoption of green supply chain management – the Indian plastic industry perspective’, *Int. J. Business Performance and Supply Chain Modelling*, Vol. 8, No. 1, pp.46–65.
4. **Haq, A.N.** and Boddu, V., 2015. An integrated fuzzy QFD and TOPSIS approach to enhance leanness in supply chain. *International Journal of Business Performance and Supply Chain Modelling*, 7(2), pp.171-188.
5. **Haq, A.N.** and Boddu, V., 2015. Analysis of agile supply chain enablers for Indian food processing industries using analytical hierarchy process. *International Journal of Manufacturing Technology and Management*, 29(1-2), pp.30-47.
6. Mathiyazhagan, K., Kannan Govindan and **A. Noorul Haq** (2014) Pressure analysis for Green Supply Chain Management implementation in Indian Industries Using Analytic Hierarchy Process. *International Journal of Production Research* (Taylor and Francis), 52, 188-202. Doi: 10.1080/00207543.2013.831190.
7. Kannan Govindan, Mathiyazhagan Kaliyan, K. Devika, **A.N. Haq** (2014) Barriers analysis for Green Supply Chain Management implementation in Indian Industries Using Analytic Hierarchy Process, *International Journal of Production Economics* (Elsevier) 147, 555–568.
8. Mathiyazhagan K, Kannan Govindan, **Noorul Haq A**, Yong Geng (2013) An ISM approach for the barrier analysis in implementing green supply chain management. *Journal of Cleaner Production* (Elsevier), 47, 283-297.
9. Lei Xu, K. Mathiyazhagan, Kannan Govindan, **A. Noorul Haq**, Navneet Vyas Ramachandran and Avinash Ashokkumar (2013) Multiple Comparative Studies of Green Supply Chain Management: Pressures analysis, *Resource Conservation & Recycling* (Elsevier), 78, 26–35.
10. Mathiyazhagan, K and **Haq, A. N** (2013) Analysis of the influential pressures for green supply chain management adoption—an Indian perspective using interpretive structural modeling. *The International Journal of Advanced Manufacturing Technology* (Springer), 68, 817-833.
11. Sasikumar P, **Noorul Haq A** (2011) “Integration of closed loop distribution supply chain network and 3PRLP selection for the case of battery recycling”, *International Journal of Production Research*, Vol.49, No.11, pp. 3363-3385.
12. Sasikumar P, **Noorul Haq A** (2010) “A multi criteria decision making methodology for the selection of reverse logistics operating modes”, *International Journal of Enterprise Network Management*, Vol. 4, No. 1, pp. 68-79.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

13. Sasikumar P, Kannan G, **Noorul Haq A** (2010) "A multi-echelon reverse logistics network design for product recovery – A case of truck tire remanufacturing", *The International Journal of Advanced Manufacturing Technology*, Vol. 49, pp.1223-1234.
14. Gnanavel Babu A, Jerald J, **Noorul Haq A**, Muthu Luxmi V and Vigneswaralu T.P (2010) "Scheduling of Machines and Automated Guided Vehicles in FMS using Differential Evolution" *International Journal of Production Research*, Vol. 48, No. 16, pp. 4683-4699.
15. Senthil Kumar A, Jeyapaul R, **Noorul Haq A** (2009) "Comparative evaluation of supply chain strategies using Simulation Modeling and Grey Relational Analysis", *International Journal of Logistics and Supply Chain Management*, Vol. 1, No. 1, pp. 67-75.
16. Senthil Kumar A, Jeyapaul R, **Noorul Haq A** (2009) "Evaluation of supply chain using Desirability Function Analysis and ANOVA", *International Journal of Logistics and Supply Chain Management*, Vol. 1, No. 1, pp. 51-60.
17. Senthil Kumar A, Jeyapaul R, **Noorul Haq A** (2009) "Analysing the Performance of Supply chain Designs", *International Journal of Business Performance Management*, Vol. 11, No.1/2, pp. 72-95.
18. Gnanavel Babu A, Jerald J, Narendar K and **Noorul Haq A** (2009) "Simultaneous Scheduling Machines and AGVs in FMS Environment" *Journal of Modern Manufacturing Technology*, 1(1) pp.43-57.
19. Gnanavel Babu A, Jerald J and **Noorul Haq A** (2009) "Particle Swarm Optimization for scheduling of Machines and Automated Guided Vehicles in Flexible Manufacturing Systems", *International Journal of Materials, Manufacturing and Optimization*. (accepted for publication)
20. Gnanavel Babu A, Jerald J and **Noorul Haq A** (2009) "Multi objective scheduling optimization of machines and AGVs in flexible manufacturing systems", *International Journal of Mathematics and Engineering with Computers*. (accepted for publication)
21. Gnanavel Babu A, Jerald J and **Noorul Haq A** (2009) "Simultaneous Scheduling of jobs, AGVs and AS/RS in FMS using Artificial Immune System" *International Journal of Advances in Production Engineering and Management*. (accepted for publication)
22. Gnanavel Babu A, Jerald J and **Noorul Haq A** (2009) "Scheduling of machines and AGVs in FMS using Sheep Flock Heredity Algorithm", *International Journal of Industrial Engineering Practices*. (accepted for publication)
23. Panneerselvam K, Aravindan S and **Noorul Haq A** (2009) "Joining of thermoplastics by frictional vibration" *Journal of Modern Manufacturing Technology*, 1(1) pp.83-92.
24. Sasikumar P, Kannan G, **Noorul Haq A** (2009) "A heuristic based approach to vehicle routing model for third party reverse logistics provider" *International Journal of Services Technology and Management*, Vol. 12, No. 1, pp. 106-125.
25. Jerald J, Gnanavel Babu A and **Noorul Haq A** (2008) "Multi objective Scheduling of Jobs, AGVs and AS/RS in FMS using Non-Traditional Optimization Techniques", *International Journal of manufacturing Science and Production*, Vol. 9, Nos. 1-2.
26. Kannan. G, **Noorul Haq A**, Sasikumar.P and Subramaniam Arunachalam (2008) "Analysis and selection of green suppliers using interpretative structural modeling and analytic hierarchy process", *International Journal of Management & Decision Making*, Vol. 9, No 2, pp. 163-182.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

27. Kannan. G, **Noorul Haq A** and Sasikumar.P (2008) “An application of the Analytical Hierarchy Process and Fuzzy Analytical Hierarchy Process in the selection of collecting centre location for the reverse logistics Multi-criteria Decision Making supply chain model”, International Journal of Management & Decision Making, Vol. 9, No 4, pp. 350-365.
28. Sathiya P, S.Aravindan and **Noorul Haq A** (2008) “Tensile properties of similar AISI 304 austenitic and AISI 430 ferritic stainless steels joined by friction welding” International Journal of Multidiscipline Modeling in Materials and Structures, vol. 4, pp 1-25.
29. Aravindan.S, Naveen Sait A and **Noorul Haq A** (2008) “Machinability Study of GFRP pipes using statistical techniques”, International Journal of Advanced Manufacturing Technology, Vol. 37, pp. 1069-1081.
30. Naveen Sait A, Aravindan.S and **Noorul Haq A** (2008) “Experimental investigation on machining of filament wound GFRP pipe by cemented carbide (K₂₀) cutting tool”, International Journal of Machining and Machinability of Materials (accepted for publication).
31. Naveen Sait A, Aravindan.S and **Noorul Haq A** (2008) “Investigation on surface damages on machining hand layup GFRP composites”, International Journal of Materials and Sciences (accepted for publication).
32. Kannan G, Murugesan P and **Noorul Haq A** (2009) “Multi criteria group decision making for the third party reverse logistics service provider in the supply chain model using fuzzy TOPSIS for transportation services” International Journal of Services Technology and Management, Vol. 11, pp. 162-181.
33. Kannan G, Murugesan P and **Noorul Haq A** (2009) “3PRLPs selection using an integrated analytic hierarchy process and linear programming” International Journal of Services Technology and Management, Vol. 12, No.1, pp. 61-80.
34. Sathiya P, S.Aravindan and **Noorul Haq A** (2007) “Effect of friction welding parameters on mechanical and metallurgical properties of ferritic stainless steel” International Journal of Advanced Manufacturing Technology, vol. 31, No. 11-12, pp 1076-1082.
35. Sathiya P, S.Aravindan and **Noorul Haq A** (2007) “Optimization of friction joining parameters in processing of similar ferritic stainless steel joints by evolutionary computational techniques” International Journal of Manufacturing Science & Technology, Vol. 9 No. 2, pp 89-100.
36. **Noorul Haq A** and Kannan. G (2007) “A hybrid normalized multi criteria decision making for the vendor selection in a supply chain model”, International Journal of Management and Decision Making, Vol. 8, No. 2/3, pp. 275-296.
37. **Noorul Haq A** and Tamizharasan, T (2007) “**Ring wear monitoring in IC engines: An acoustic emission approach**” International Journal of Advanced Manufacturing Technology, 31 (11-12), pp. 1148-1155.
38. **Noorul Haq A** and Tamizharasan, T (2007) “**Chip analysis for the determination of flank wear in dry turning**” International Journal of Machining and Machinability of Materials, 1 (2), pp. 258-274.
39. **Noorul Haq A** Saravanan M, Vivekraj A.R and Prasad T (2007) “**A scatter search approach for general flowshop scheduling problem**” International Journal of Advanced Manufacturing Technology, 31 (7-8), pp. 731-736.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

40. **Noorul Haq A** and Saravanan, M. (2007) “Evaluation of scatter search approach for scheduling optimization of flexible manufacturing systems” International Journal of Advanced Manufacturing Technology (accepted for publication).
41. **Noorul Haq A**, Saravanan M, Vivekraj A.R and Prasad T (2007) “Performance evaluation of scatter search method for permutation flow shop sequencing problems” International Journal of Advanced Manufacturing Technology (accepted for publication).
42. **Noorul Haq A** and Saravanan, M (2007) “**A scatter search approach for minimizing earliness and tardiness penalties in single machine scheduling around large restrictive common due windows**” International Journal of Applied Management Technology, Vol. 5, No. 2, pp. 76-91.
43. **Noorul Haq A** and Saravanan, M (2007) “Evaluation of **scatter search approach for minimizing earliness and tardiness penalties in single machine scheduling around large restrictive common due windows**” International Journal of Manufacturing Science and Technology.
44. **Noorul Haq A** and Tamizharasan, T (2007) “Effect of mist cooling on quality characteristics in turning operation – A DOE and empirical model approach” International Journal of Manufacturing Technology and Research, Vol 3, pp.11-26.
45. **Noorul Haq A** and Tamizharasan, T (2007) “Modeling and prediction of tool life and specific energy in turning” International Journal of Machining and machinability of materials, Accepted for publication.
46. **Noorul Haq A**, Vijaya Bharat M, and Jayaprakash J (2007) “Mixed model assembly line balancing using Ant Colony Optimization technique” International Journal of Manufacturing Technology and Research, Vol 3, pp.37-42.
47. Azhagesan N, Balachandran P, and **Noorul Haq A** (2007) “**Heat transfer characteristics and pressure drop in bubble finned plate heat exchanger and correlation development**” International Journal of Heat and Technology, 25(2), pp.1-8
48. Kannan. G, Noorul **Haq A**, and Devika .M (2007) “Analysis of closed loop Supply Chain using genetic algorithm and particle swarm optimisation”, International Journal of Production Research.
49. Azhagesan. N, Balachandran. P, and **Noorul Haq A** (2006) “**Experimental heat transfer co-efficients during refrigerant vaporization inside plate heat exchanger with bubble finned plate**” International Journal of Heat and Technology, 24 (1), pp. 153-158.
50. Venkumar, P and **Noorul Haq A** (2006) “**Complete and fractional cell formation using Kohonen self-organizing map networks in a cellular manufacturing system**” International Journal of Production Research, 44 (20), pp. 4257-4271.
51. **Noorul Haq A** and Tamizharasan, T (2006) “**Investigation of the effects of cooling in hard turning operations**” International Journal of Advanced Manufacturing Technology, 30 (9-10), pp. 808-816.
52. Tamizharasan. T, Selvaraj, T and **Noorul Haq A**, (2006) “**Analysis of tool wear and surface finish in hard turning**” International Journal of Advanced Manufacturing Technology, 28 (7-8), pp. 671-679.
53. Venkumar, P and **Noorul Haq A** (2006) “**Fractional cell formation in group technology using modified ART1 neural networks**” International Journal of Advanced Manufacturing Technology, 28 (7-8), pp. 761-765.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

54. **Noorul Haq A**, Rengarajan, K and Jayaprakash, J (2006) “**A hybrid genetic algorithm approach to mixed-model assembly line balancing**” International Journal of Advanced Manufacturing Technology, 28 (3-4), pp. 337-341.
55. **Noorul Haq A**, Sivakumar, K., Saravanan, R., Karthikeyan, K.(2006)” **Particle swarm optimization (PSO) algorithm for optimal machining allocation of clutch assembly**” International Journal of Advanced Manufacturing Technology, 27 (9-10), pp. 865-869.
56. **Noorul Haq A** and Kannan. G (2006) “Analysis of interactions of criteria and sub-criteria for the selection of supplier in the built- in- order supply chain environment”, **International Journal of Production Research**, (Published on line on 30th October 2006).
57. **Noorul Haq A** and Kannan. G (2006) “A model for determining the quality of the manufacturing system using Neuro - Fuzzy approach”, International Journal of Applied Management and Technology, Vol. 4, No 1, pp. 1-24.
58. **Noorul Haq A** and Kannan. G (2006) “Effect of forecasting on the multi echelon distribution inventory supply chain cost using Neural network, Genetic algorithm and Particle swarm optimisation”, **International Journal of Services Operations and Informatics**, Vol. 1, No 1/2, pp. 1-22.
59. **Noorul Haq A** and Kannan. G (2006) “An integrated approach for selecting a vendor using grey relational analysis”, International Journal of Information Technology & Decision Making, Vol. 5, No 2, pp. 277-295.
60. **Noorul Haq A** and Kannan. G (2006) “Design of Integration of supplier selection and Multi Echelon distribution inventory model in a built-to-order supply chain environment”, International Journal Production Research, Vol. 44, No 10, pp. 1963-1985.
61. **Noorul Haq A** and Kannan. G (2006) “Two Echelon Distribution-Inventory Supply Chain Model for the bread industry using Genetic Algorithm”, International Journal of Logistics Systems and Management, Vol. 2, No 2, pp. 177-193.
62. **Noorul Haq A** and Kannan. G (2006) “Fuzzy Analytical Hierarchy Process for evaluating and selecting a vendor in a Supply Chain model”, International Journal of Advanced Manufacturing Technology, U.K., Vol. 29, pp. 826-835
63. **Noorul Haq, A.** and **Radha Ramanan, T.** (2006) “A bicriterian flow shop scheduling using artificial neural network “International Journal of Advanced Manufacturing Technology 30 (11-12), pp. 1132-1138.
64. **Noorul Haq, A.** and **Radha Ramanan, T.** (2006) “Integration of Lot sizing and cyclic scheduling for a bicriteria weighted flowshop with availability constraints ” International Journal of Applied Management Technology, Accepted for publication.
65. Sathiya P, S.Aravindan and **Noorul Haq A.** (2006) “Optimization for friction welding parameters with multiple performance characteristics” International Journal of Mechanics and Material Design, vol. 3, pp309-318,
66. Guharaja, S, **Noorul Haq, A** and **Karuppannan, K.M.** (2006) “Optimization of green sand casting process parameters by using Taguchi's method”. International Journal of Advanced Manufacturing Technology 30 (11-12), pp. 1040-1048.
67. **Noorul Haq A** and Balasubramaniyan K G (2006) “Parallel line flow scheduling to minimize maximum tardiness”, International Journal of Applied Management and Technology, Vol. 4, No 2, pp. 140-148.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

68. Venkumar, P and **Noorul Haq A** (2005) “Cell formation using artificial neural networks” International Journal of Manufacturing Technology and Research, 28 (7-8), pp. 71-76.
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