

## Engr. Prof. Dr. Sahar Noor

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### **Brief CV**

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**Prof Dr Sahar Noor** received his BSc Mechanical Engineering (1993) from the University of Engineering and Technology (UET) Peshawar, MSc in Metallurgical Engineering (1996) from the NED UET, Karachi and PhD degree from the University of Bradford (2007). His PhD was in Scheduling of Manufacturing Systems using AI Tools. During 1997-2008, he worked in the Department of Mechanical Engineering, UET Peshawar-Pakistan and thereafter joined the Department of Industrial Engineering in 2008. During 2008-2014, **beside** teaching undergrad and postgrad courses at the Department of Industrial Engineering, he looked after different administrative responsibilities like Secretary Board of Advanced Studies and Research, Advisor Postgrad Studies, Director Admissions, Editor of Journal of Engineering and Applied Sciences, Chairman of Industrial and Chemical Engineering Departments and Director Quality Enhancement Cell at the UET, Peshawar-Pakistan. As head of Quality Assurance at UET, He took initiative to transform traditional Engineering Education to Outcome-Based Education, develop SOPs to minimize delays in issuance of degrees and transcripts, launch and lead a project on ERP for 'paperless processes' at UET, Peshawar and upgrade/restructure QEC to a full-fledged Directorate of Quality Assurance as per requirement of the HEC, Islamabad.

He has also international exposure working as a faculty member in the Department of Industrial Engineering, King Khalid University, Abha, KSA and University of Bradford, UK. He has more than 45 research publications in journals of repute and international conferences. His area of interest is sustainable manufacturing, manufacturing planning and control and application AI tools in different areas of Industrial Engineering, and Quality Assurance and Management of Higher Education.

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## ***Academic Qualification***

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1. **PhD** (2004-2007) from University of Bradford, United Kingdom (Title of Thesis: *Operational Scheduling of Traditional and Flexible Manufacturing Systems using Genetic Algorithms, Artificial Neural Networks and Simulation*).
2. **M.Sc in Metallurgical Engineering** (1994-1996) from Institute of Material Science & Research, Pakistan Steel Karachi-Pakistan.
3. **Postgraduate Diploma in Computer Systems Software and Hardware** (April 2001-October 2001) from Computer Center, Islamabad.
4. **B.Sc in Mechanical Engineering** (1989-1993) with honors from University of Engineering & Technology Peshawar-Pakistan.

## ***Teaching & Research Experience***

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1. June 28, 2010 till date: Professor at the Department of Industrial Engineering, University of Engineering & Technology, Peshawar-Pakistan.
2. September 9, 2014 to August, 2015: Faculty Member at the Department of Industrial Engineering, College of Engineering, King Khalid University, Abha, KSA.
3. October 18, 2008 to June 27, 2010: Associate Professor at the Department of Industrial Engineering, University of Engineering & Technology, Peshawar-Pakistan.
4. March 22, 2000 to October 17, 2008: Assistant Professor at the Department of Mechanical Engineering, University of Engineering & Technology, Peshawar-Pakistan.
5. September, 2006 to August 2007 Lecturer (part time) at the School of Engineering, Design and Technology, University of Bradford, UK.
6. September 19, 1997 to March 21, 2000: Lecturer at the Department of Mechanical Engineering, University of Engineering & Technology, Peshawar-Pakistan.
7. August 1, 1996 to September 18, 1997: Lab Engineer cum Lecturer at Islamia College of Technology, Kohat, Pakistan
8. October 17, 1995 to July 15, 1996: Civilian Instructor at Pakistan Naval Academy, Karachi-Pakistan.

## ***Administrative Job Experience***

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1. July 2016 till date: **Chairman**, Department of Industrial Engineering, University of Engineering and Technology, Peshawar-Pakistan
  - Responsible for administrative, academic and research activities of the department
  - Major initiatives :
    - Launching New MS Programme in Engineering Management as per market demand
    - Developing Advanced Manufacturing Lab with the available resources
    - Transforming existing laboratories to commercial and research testing facilities
    - Transforming traditional Examination System to the Outcome-based Assessment for the Department as requirement of the PEC
    - Revamping existing Engineering Workshops for assisting R & D and consultancy activities of the University.

2. March 2016 till date: **Director, Quality Enhancement Cell (QEC)**, University of Engineering and Technology, Peshawar-Pakistan with following responsibilities and functions :
- Promoting public confidence that the quality and standards of the award of degrees are enhanced and safeguarded.
  - Reviewing academic affiliations with other institutions in terms of effective management of standards and quality of programs.
  - Developing qualifications framework by setting out the attributes and abilities that can be expected from the holder of a qualification, i.e. Bachelors, Bachelor with Honors, Master's, M. Phil., Doctoral.
  - Developing program specifications. These are standard set of information clarifying what knowledge, understanding, skills and other attributes a student will have developed on successfully completing a specific program.
  - Developing procedures for the following:
    1. Approval of new program
    2. Annual Monitoring and evaluation including program monitoring, Faculty monitoring, and student perceptions.
    3. Departmental review
    4. Student feedback
    5. Employer feedback
    6. Quality assurance of Master's, M.Phil and PhD degree programs
    7. Subject review
    8. Institutional assessment
    9. Program specifications
  - **Major Initiatives**
    1. Transforming Traditional Engineering Education to Outcome-Based Education
    2. Developing SOPs for posting of results at the CMS to minimize delays in issuance of degrees and transcripts
    3. Launching and leading a project on ERP for 'paperless processes' at UET, Peshawar
    4. Upgraded/Restructuring QEC to a full-fledged Directorate of Quality Assurance as per requirement of the HEC, Islamabad.
3. September 16, 2011 to September 2014: **Secretary, Board of Advanced Studies and Research (BOASAR)**, University of Engineering and Technology, Peshawar-Pakistan.
- Responsibilities:**
- Developing and Presenting different postgraduate degree programmes to the Board for approval
  - Presenting different research projects for approval.
  - Monitoring the progress of research projects
  - Advising the authorities on all matters related to the promotion of advanced studies and research in the University
  - Dissemination of research results to the quarter concerned.
4. April 2010 to August 2012: **Chairman**, Department of Chemical Engineering, University of Engineering and Technology, Peshawar-Pakistan.
- Responsibilities:**
- Responsible for administrative, academic and research activities of the department

5. April 2010 to September 16, 2011: **Director Admissions**, University of Engineering and Technology, Peshawar-Pakistan.  
**Responsibilities:**
  - Responsible for smooth and transparent induction of students to different engineering programmes both at undergraduate and postgraduate level.
  - Responsible for all logistic support to ETEA for smooth operation of ETEA Test for Engineering Admissions
  - Responsible for Development of online ETEA Entry Test registration System
  - Responsible for Development of Online Application for Admission to different engineering programmes both at undergraduate and postgraduate level.
  - Help Government of Khyberpukhtunkhwa for transparent induction of FATA students at different Engineering Universities of Pakistan
  - Help Government of Khyberpukhtunkhwa for transparent induction of students for reciprocal seats at different Engineering Universities of Pakistan
6. February 2009 to September 2014: **Postgraduate Advisor**, Department of Industrial Engineering, University of Engineering and Technology, Peshawar.  
**Responsibilities:**
  - Advising the chairman on the issue related to postgraduate programme at the Department
  - Advising students in choosing their research areas and relevant courses
7. August 1998 to March 2003: **Warden**, University Hostels, NFWFP University of Engineering & Technology, Peshawar-Pakistan.
8. September 1999 to March 2003: **Staff Proctor**, NFWFP University of Engineering & Technology, Peshawar-Pakistan.

## ***Scholarships /Awards***

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1. PhD Scholarship Award 2003, under University of Engineering and Technology (UET) Endowment Fund Project.
2. HEC Scholarship Award 2006 for PhD under Partial Support Programme
3. MSc Scholarship Award under Pak Steel Postgraduate Programme

## ***Supervision of PhD Research Projects***

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1. Design and Analysis of Hybrid Manufacturing Supply Chain System (PhD Project Completed).
2. Framework Design for Dynamic Control Cards in CONWIP Production Control System (PhD Project in Progress).
3. Development of Framework For The Evaluation of Sustainability of Residential Buildings In Pakistan (PhD Project in progress)

## ***Supervision of MS Research Projects***

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1. Performance Analysis of Processes in Ceramic Industries using Simulation Techniques (MS Project Completed).

2. Reasoning and Diagnostic System for Atar Aircraft Using Fuzzy Logic (MS Project Completed)
3. Development of Hybrid Energy System (MS Project Completed)
4. Reasons for Void Formation in Lamination of Electrical Devices and their Removal (MS Project Completed)
5. Integrated Approach for Optimum Production Plan (MS Project completed).
6. Performance improvement of compressors to recover flare gas using design of experiment techniques (MS Project completed)
7. Study and Analysis of Sustainability in Local Marble Industry (MS Project completed)

### ***Member PhD Research Evaluation Committees***

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1. Member Research Evaluation Committee for a PhD Research Thesis, “ Fatigue Modeling in Driving” Department of Mechanical Engineering, University of Engineering and Technology, Peshawar-Pakistan
2. Member Research Evaluation Committee for a PhD Research Thesis, ” Modeling and Evaluation of Die Casting for Automobile Industries”, Department of Mechanical Engineering, University of Engineering and Technology, Peshawar-Pakistan
3. Member Research Evaluation Committee for a PhD Research Thesis, ” Modeling and Analysis of Globalizing SMEs”, Department of Mechanical Engineering, University of Engineering and Technology, Taxila-Pakistan
4. Member Research Evaluation Committee for a PhD Research Thesis, ” Integrated Approach for Policy Frame Work for Efficient Operation of Manufacturing Sector Using AI Techniques”, Department of Mechanical Engineering, University of Engineering and Technology, Peshawar-Pakistan
5. Member Examination Committee for a PhD Research Thesis, ” Hybrid Scheduling System for Cellular Manufacturing”, Department of Mechanical Engineering, National University of Science and Technology (NUST), Islamabad-Pakistan

### ***Expertise in Outcome Based Education(OBE)***

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1. Participated in training for Programme Evaluators organized by the Pakistan Engineering Council
2. Organized one week training on Outcome Based Education for the Department of Industrial Engineering
3. Organized One Day Training on OBE software for the Department of Industrial Engineering in collaboration with Alfoze Technologies Pvt Limited, Islamabad
4. Organized one Day Workshop on Role of IT in enhancing quality of education.

### ***Experience in Curriculum Development***

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1. **Coordinator for Postgraduate Programmes** at the Department of Industrial Engineering, King Khalid University, Abha, KSA.  
**Responsibilities:**
  - Developing and compiling courses for six different streams in Industrial Engineering i.e.(Manufacturing Systems Engineering. Quality Engineering. Operation Research, Supply Chain Management, Productivity Engineering and Engineering Management

- Coordinating with other faculty members of relevant field for incorporating their suggestions and feedback in developing courses
  - Presenting programmes before the faculty board at the Department of Industrial Engineering, KKU, KSA.
2. **Member, Curriculum Revision and ABET Accreditation Committee** for Undergraduate Courses at the Department of Industrial Engineering, King Khalid University, Abha, KSA.  
**Responsibilities:**
    - Actively participating in developing system for ABET Accreditation of Industrial Engineering (undergraduate programme).
    - Developing new undergraduate curriculum for Industrial Engineering keeping National Curriculum Framework and ABET requirements in mind
    - Developing rubrics and learning outcomes for different courses
    - Mapping learning outcomes and programme objectives
    - Working for Self-Assessment Report
  3. Member, National Curriculum Revision Committee for Industrial Engineering, Higher Education Commission (HEC)- Pakistan (2013-till date)
  4. Chairman, Board of Studies, Department of Chemical Engineering, University of Engineering and Technology, Peshawar-Pakistan ( 2010-2012).
  5. Member, Board of Studies, Department of Industrial Engineering, University of Engineering and Technology, Peshawar-Pakistan ( 2008-till date).
  6. Member/Secretary, Board of Studies, Department of Mechanical Engineering, University of Engineering and Technology, Peshawar-Pakistan (2000-2003).
  7. Member, Board of Studies, Department of Industrial Engineering, University of Engineering and Technology, Peshawar-Pakistan ( 2008-till date).
  8. Member, Board of Studies, Department of Agriculture Mechanization, Khyber Pukhtunkhwa University of Agriculture, Peshawar-Pakistan (2010-till date).
  9. Member, Board of Studies, Department of Electronics, University of Peshawar-Pakistan (2010-till date).
  10. Member/Secretary, National Curriculum Revision Committee for Metallurgy and Material Engineering, Higher Education Commission Pakistan (2003).

## ***Organizing and Participating in Conferences***

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1. Organized and Conducted one day Workshop on ' Quality Services for Students' at UET, Peshawar, Feb 7, 2018.
2. Organized and Conducted one day Workshop on ' Outcome Based Education' for the Faculty Members of Bannu Campus, UET, Peshawar, Feb 2, 2018.
3. Organized 1<sup>st</sup> International Conference on Industrial Engineering and Management Applications, Feb 20-22, 2017, MUET, Jamshoro, Sindh, Pakistan in Collaboration with Mehran Engineering University, Jamshoro, Sindh.
4. Organized one day workshop on 'Role of IT in Managing Quality of Higher Education' at University of Engineering and Technology, Peshawar-Pakistan, 2016
5. Organized one day workshop on Outcome Based Education at University of Engineering and Technology, Peshawar-Pakistan, 2016.

6. Organized "Lecture Series" on different topics of emerging technologies at University of Engineering and Technology, Peshawar-Pakistan.
7. Organized one day National Conference on, " University-Industry Interaction on Process Sustainability" on March 28, 2012 at University of Engineering and Technology, Peshawar sponsored by Pakistan Science Foundation, Pakistan.
8. Organized one day National Workshop on " Research Funding Opportunities and Project Proposal Write-up" on Feb 16, 2012 at University of Engineering and Technology, Peshawar-Pakistan, sponsored by Pakistan Science Foundation, Pakistan.
9. Organized National Conference on 'Entrepreneurship- A Solution to Unemployment" jointly organized by the Department of Industrial Engineering and Continuing Engineering Education Centre on 15th June, 2011 at University of Engineering and Technology, Peshawar-Pakistan.
10. Attended 1st International Conference on, "Emerging Trends in Engineering Education", December 27-28, 2008, Islamabad, Pakistan.
11. Attended 23rd ISPE International Conference on CAD/CAM, Robotics and Factories of the Future, August 16-18, 2007, Bogota, Colombia, chaired two technical sessions and presented research papers.
12. Attended 35th MATADOR Conference, July 17-18, 2007, Taipei, Taiwan. and presented a research paper.
13. Attended 22nd ISPE International Conference on CAD/CAM, Robotics and Factories of the Future, July 19-22, 2006, Vellor, India and presented research papers.
14. Attended 9th International Symposium on Advanced Materials, Islamabad. 19-22 September 2005 and presented a research paper.
15. Attended 21st ISPE International Conference on CAD/CAM, Robotics and Factories of the Future, July 18-21, 2005, Krakow, Poland and presented a research paper.
16. Attended National Seminar on Occupational Safety in Mining and Industries, Peshawar-Pakistan, April 29-30, 1998 and presented a research paper.

## ***Courses Taught at University Level***

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Industrial Quality Control, Human Factors Engineering, Measurement & Instrument, Reliability and Maintenance Engineering, Manufacturing Planning and Control, Industrial Management, Manufacturing Systems, Facility Analysis and Design, CAD/CAM, CIM, Machine Design, Engineering Metallurgy, Engineering Materials, Manufacturing Processes, Metal Forming and Cutting Analysis, Mechanical Technology, Fluid Mechanics, Thermodynamics, Computer Applications In Mechanical Engineering, CAD/CAM, Computer Simulation and Modeling, Operations Management, Statics, Fundamental of Computer and Computer Programming in MATLAB, Project Management and Engineering Economy.

## ***Research Publications in Journals***

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1. Naseem Ahmad, Sahar Noor, Rehman Akhtar, Misbah Ullah, Khizar Azam, 'Performance Improvement of Compressor to Recover Flare Gas Using Design of Experiment Technique', J. Engg. and Appl. Sci. Vol.36 No,1, pp 93-106, 2017.
2. A. Nawaz, B. Islam, R. Akhtar, K. Alamgir, S. Noor, Failure of Polyester Laminated Automotive Ignition Coils Influenced by Environmental Factors, Arabian Journal for Science & Engineering, 40 (11), pp. 3337- 3344, 2015
3. Akhtar Nawaz, Sahar Noor, Iftikhar Hussain, Afzal Khan and Shahid Rashid, 'Methodology for Positioning Multiple Decoupling Points in Hybrid Manufacturing Supply Chain System' Journal of Engineering and Applied sciences, UET Peshawar, Vol 34, Issue 2, 2015.
4. Muhammad Omair, Sahar Noor, Iftikhar Hussain and Shahid Maqsood, 'Framework for sustainability in dimension stone industry, Khyber Pakhtunkhwa, Pakistan', Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan Vol. 20(SI) No.II(S)-2015.
5. Muhammad Omair, Sahar Noor, Iftikhar Hussain , Shahid Maqsood, 'Assessment of sustainability in marble quarry industry of Khyber Pakhtunkhwa Province Pakistan', International Journal of Engineering and Technology (IJET), volume 14, issue 03, pp 84-89.
6. Muhammad Qasim and Sahar Noor, ' Integrated Approach for Optimum Production Plan', Sarhad University of International Journal of Basic and Applied Sciences, Vol 2, Issue 1, June 2014, (in Press).
7. Qazi, A. J., Khan, A., Khan, M. T. and **Noor, S.**, 'A Novel Application of Particle Swarm Optimization Technique in Semi-Active Suspension System Control', Journal of Engineering and Applied Sciences (JEAS), (paper accepted, in press)
8. Abdullah Waseem, Ahmad Nawaz\*, Nauman Munir, Bilal Islam, **Sahar Noor** "Comparative Analysis of different Materials for Pallet Design using ANSYS" International Journal of Mechanical & Mechatronics Engineering, IJENS Publishers Vol; 13 (2) , 2013, pp: 26-32
9. Mohammad Inayatullah Babar, Syed Waqar Shah, Sahar Noor, Rafiullah Khan, Rifaqat Zaheer, Muhammad Akmal and Muhamamd Ali Raza, " Intelligent Request Tracking and Network Monitoring System", Sarhad Journal of Agriculture 2013, Vol. 29, No. 1, pp. 151-162.
10. Mohammad Inayatullah Babar, Syed Waqar Shah, Sahar Noor, Hameed Ullah and Asfandyar, "Exploring the Role of Gateway During Integration of Mobile IPv6 and Ad-Hoc On Demand Distance Vector Routing Protocol", Sarhad Journal of Agriculture 2012, Vol. 28, No. 4, pp. 579-584.
11. Ahmad Nawaz, Bilal Islam, Naeem Khattak, **Sahar Noor** (2012) "Comparison of polyester and araldite impregnated ignition coils using SQC tools" International Journal of Engineering and Technology Vol; 12 (6), pp:29-36
12. Adnan Tariq, Afzal Khan, Iftikhar Hussain, **Sahar Noor**, Muhammad Tahir K, "A comprehensive Product Orientated Technique for Cellular Manufacturing System Design", Journal of Engineering and Applied Sciences, Vol. 31, No. 1, January-June 2012, pp. 61-70 , ISSN : 1023-962X
13. Qazi, A. J., Khan, A., Khan, M. T. and **Noor, S.**, 'Parametric Analysis of Various Control Algorithms for Semi-Active Suspension System', Journal of Engineering and Applied Sciences, Vol. 31, No. 1, January-June 2012, pp. 89-97, ISSN : 1023-962X
14. S. Maqsood, **S.Noor**, M.K. Khan and AS Wood, "Hybrid Genetic Algorithm (GA) for Job Shop Scheduling Problems and its Sensitivity Analysis" Int. J. Intelligent Systems Technologies and Applications, Vol 11 No ½ 2012, pp 49-62.



15. Amad-Uddin, M K Khan and **Sahar Noor**, “ Design and Implementation of a Bespoke MRP II System for Small and Medium Enterprise (SME) in Manufacturing Company”, *Journal of Quality and Technology Management* Volume VII, Issue 1, June, 2011, pp. 73– 90.
16. M K Khan, I Hussain and **Sahar Noor**, “A Knowledge Based Methodology for Planning and Designing of a Flexible Manufacturing System (FMS), *International Journal of Advanced Manufacturing Systems*, Volume 13, Issue 1, 2011.
17. Adnan Tariq, Iftikhar Hussain, Abdul Ghafoor, **Sahar Noor**, “An Evolutionary Algorithm for Job-Shop Scheduling”, *Journal Engineering and Applied Sciences* Vol. 29 No.1 2010.
18. Hamidullah, R. Akbar, **S. Noor**, Waqar Shah & Inayatullah “QFD as a Tool for Improvement of Car Dashboard” *Journal of Quality and Technology Management* Volume VI, Issue 1, June, 2010, pp. 1 – 24.
19. Riaz A. sayed, Khizar Azam, M. I. Babar, Waqar Shah, Hamidullah, **S. Noor** “A Review of Driving under the Influence of Fatigue” *Journal Engineering and Applied Sciences* Vol. 29 No.1 2010.
20. Iftikhar Ahmad and **Sahar Noor**, “ Characterization of Ceramics Wall Tiles Using Local Talc as a Fluxing Agent”, *Journal Engineering and Applied Sciences* Vol. 29 No.1 2010.
21. **Sahar Noor**, M. K. Khan, I. Hussain, A. Khan, R. A. Syed, S.W. Shah and M. I. Babar, “Application of a Hybrid Artificial Neural Networks Model to a Scheduling Policy System”, *Journal of Engineering and Applied Sciences*, Vol 28 No. 1 January-June 2009, pp 89-102.
22. **Sahar Noor**, M. K. Khan, I. Hussain, A. Khan, R. A. Syed, S.W. Shah and M. I. Babar, “ GA-Based Scheduling System for Flow Shop and Job Shop Scheduling Problems”, *Journal of Engineering and Applied Sciences*, Vol 28 No. 1 January-June 2009, pp 77 -88.
23. Khizer A, Riaz S., **S. Noor**, Khan H., Shah W., Babar I., “ Driver Fatigue Related Road Accidents in Pakistan”, *Journal of Engineering and Applied Sciences*, Vol 28 No. 2 July-December 2009, pp 45-51.
24. S. Maqsood, I Hussain, **S. Noor**, “ Implementation of Kanban System at the Shop Floor of a Multinational Company”, *Journal of Engineering and Applied Sciences*, Vol 27 No. 1 January-June 2008, pp 63-67.
25. **Sahar Noor**, M. K. Khan, I. Hussain, Irfan Ullah, ” Application of Simulation and Artificial Neural Network to the problem of Scheduling of Flexible Manufacturing System”, *International Journal of INGENIUM (ISSN 1363-514x)*, 2, Krakow-Glasgow-Radom 2005, pp 191-198.
26. Ali Haider, **Sahar Noor** and Zubair Ahmad,”Development of Tar-Bonded Dolomite Bricks for Steel ladles”, *Journal of Engineering & Applied Sciences*, Vol 23 No 2 July-Dec. 2004.pp 65-73.
27. Iftikhar Hussain, Abdul hadi, **Sahar Noor**, “Single Model Assembly Line Balancing” *Journal of Engineering & Applied Sciences*, Vol. 22, No. 2, 2003, pp. 72-78.
28. Iftikhar Hussain, Abdul Hadi, **Sahar Noor**, “Material Handling Equipment Selection in Manufacturing Environment” *Journal of Engineering & Applied Sciences*. Vol. 22, No. 2, 2003, pp. 1-9.
29. Iftikhar Hussain, Abdul Hadi, and **Sahar Noor**,” Application of Quality Improvement Techniques at AL-Essa National Factory for Air Conditioner”, *Journal of Engineering & Applied Sciences*, Vol 21, No.2, July-Dec 2002.pp 45-52.
30. Ali Haider, Zakir Ullah and **Sahar Noor**,” Annealing of Drawing Grade Steel Coils at Bell Type Furnaces”, *Journal of Engineering & Applied Sciences*, Vol 21, No.21, July-Dec 2002.pp 39-44.
31. M. Raufuzzaman, A.R. Siddique, **Sahar Noor** and Dr.Khursheed Mahmood, “Effect of Various Deoxidants on the Oxygen Content In Various Grades of Steel”, *Pakistan Steel Research Journal*, Vol III, No.1, 2002, pp 32-37 (ISSN 1025-997X).

32. **Sahar Noor**, Afzal Khan, and Moinnuddin Ali Khan, “Casting Analysis and Quality Improvement of Steel Grades WR-67 & WR-62”, *Journal of Engineering & Applied Sciences*, Vol.18 No.2, July –Dec, 1999. pp 109-119.

## ***Research Publications in Conferences***

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1. Naseem Ahmad , Sahar Noor , Rehman Akhtar , Khizar Azam, “ Performance Improvement of Compressor to Recover Flare Gas by Factors Analysis Method”, *Proceedings of the First International Symposium on Automotive and Manufacturing Engineering (SAME)*, NUST, 2015 Islamabad.pp 10-18.
2. Ahmad Nawaz, Bilal Islam, Rehman Akhtar, Sahar Noor “Effects of Environmental Temperature on bubble formation in lamination of Ignition Coils” *Proceedings of SCONEST, IEEE*, 13-14 September 2014, pp: 110-113.
3. Qazi, A. J., Khan, A., Khan, M. T. and Noor, S, ‘A Parametric Study on Performance of Semi-Active Suspension System with Variable Damping Coefficient Limit’, *AASRI Conference on Intelligent Systems and Control*, April 17-18, 2013, Vancouver, Canada.
4. A. Fiaz, S. Noor, A. Khan, A. J. Qazi, ‘Diagnostics and Maintenance Reasoning for Jet Engine using Fuzzy Logic’, *3rd International Conference on Aerospace Science and Engineering (ICASE2013)*, August 21-23, 2013, Islamabad, Pakistan
5. Ahmad Nawaz and Sahar Noor, “Parameters affecting Voids Elimination in Manufacturing of Polyester Impregnated High Voltage Automotive Ignition coils/ Small Transformers”, *International Conference on Engineering and Sciences*, Hong Kong, 14-16 December, 2012.
6. Sahar Noor and Imran Ahmed, “Simulation Based Performance Analysis of a Ceramic Factory” *1st Conference on Engineering Sciences* , Lahore, 28th – 29th February 2012.
7. S. Maqsood, S. Noor, M. K. Khan, A. S. Wood, “Sensitivity Analysis of Genetic Algorithms for Job Shop Scheduling Problems”, *26th International Conference on CAD/CAM, Robotics and Factories of the Future 2011*, Kuala Lumpur, Malaysia ISBN 978-983-44947-3-5 Volume 2, page 594,
8. Akhtar Nawaz, Afzal Khan, Sahar Noor, Iftikhar Hussain, M Ilyas Mazhar, M.Khan, “A Kknowledge-Based Decision Support System for Tool Changeover in CNCs”, *26th International Conference on CAD/CAM, Robotics and Factories of the Future 2011*, Kuala Lumpur Malaysia (ISBN 978-983-44947-3-5) Volume 2-Attachment.
9. Sahar Noor, Rizwan Gul, M.A. Irfan, “University Industry Linkage- A case study of NWFP UET Peshawar.” *Proceedings of Internal Seminar on Emerging Trends in Engineering Education* organized by Pakistan Engineering Council, December 27-28, 2008.
10. Sahar Noor, M. K. Khan, “Hybrid Scheduling System for Flow Shop and Job Shop Scheduling Problems”, *Proceedings of the 23rd ISPE International Conference on CAD/CAM, Robotics and Factories of the Future*, 16-19 August, 2007, Bogota, Colombia (ISBN: 978-958-978-597-3), pp 671-676.
11. Sahar Noor, M. K. Khan, I. Hussain, “Performance Analysis of Flexible Manufacturing Under Various Scheduling Scenarios through Simulation”, *Proceedings of the 23rd ISPE International Conference on CAD/CAM, Robotics and Factories of the Future*, 16-19 August, 2007, Bogota, Colombia (ISBN: 978-958-978-597-3), pp 587-593.

12. Sahar Noor, M.K.Khan, I.Hussain, "Investigation of Machines Sequencing Flexibility in Traditional and Flexible Manufacturing Systems (FMS) using Genetic Algorithms (GA)", Proceedings of the 35th International MATADOR Conference, 17-19 July, 2007, Taipei, Taiwan (ISBN-13:978-1-84628-987-3, e-ISBN-13:978-1-84628-988-0).
13. Sahar Noor, M. K. Khan, I. Hussain, Irfan Ullah, "Scheduling Tool for Flexible Manufacturing Systems using Hybrid Genetic Algorithm", Proceedings of the International IEEE Conference on Emerging Technologies, 13-14 November, 2006, Peshawar, Pakistan (ISBN 1-4244-0503-3).
14. Sahar Noor, M. K. Khan, I. Hussain, Irfan Ullah, "Hybrid Methodology for Predicting Scheduling Scenarios of Flexible Manufacturing System", Proceedings of the 22nd ISPE International Conference on CAD/CAM, Robotics and Factories of the Future July 19-22, 2006, India (ISBN 13:978-81-7319-792-5, ISBN 10: 81-7319-792-x).
15. I. Hussain, M.K. Khan, Sahar Noor, 'Hybrid Approach to the Selection of Material Handling Equipment' Proceedings of the 22nd ISPE International Conference on CAD/CAM, Robotics and Factories of the Future July 19-22, 2006, India (ISBN 13:978-81-7319-792-5, ISBN 10: 81-7319-792-x).
16. Irfan Ullah and Sahar Noor, "Modeling the Relationship of Composition and Mechanical Properties in Alloy Steel using Artificial Neural Networks", Proceedings of the 9th International Symposium on Advanced Materials, Islamabad. 19-22 September 2005. pp 574-577 (ISSN 969-8122-17-6).
17. Sahar Noor, Khan Gul Jadoon, and Afzal Khan, "Safety Status in Small Scale Industries of NWFP with Particular Reference to the Match and Marble Industries of Hayatabad Industrial Estate, Peshawar.", Proceedings National Seminar on Occupational Safety in Mining and Industries, Peshawar-Pakistan, 29-30 April, 1998 pp 79-83.