



Curriculum Vitae



Personal Information

Name: **Issam Saleh Jalham**
Date of Birth: 19 March 1962
Nationality: Jordanian
Marital Status: Married
Present Address: **Professor in the Industrial Engineering Department**
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Education

- PhD** in Mechanical Engineering / **Metallurgy & Engineering Materials** / University of Strathclyde / UK (1996).
- MSc.** in Industrial Engineering /**Management**/ University of Jordan (1993)
- MSc.** in Production Engineering & Design / Voroshilovgrad Machine Building Institute / former USSR (1986).
- A certificate** to teach Russian Language/ Voroshilovgrad Machine Building Institute / former USSR (1986).
- **Higher School Degree**/Ministry of Education-Jordan, 1980

Rank: **Professor** in the Industrial Engineering Department at the University of Jordan

Grade in Jordan Engineers Association: **Consultant Engineer** (JCE)/Quality Management

Languages: Arabic, English, Russian

Occupied Positions

- **Vice president of the Higher Education Accreditation Commission (HEAC) in Jordan (Equivalent to Secretary General according to the law of heac),** August 2012 – Jun 2016.
- **Assistant President for Quality Assurance in Higher Education in Addition to the current position of Vice president of the Higher Education Accreditation Commission (HEAC)**
- **Deputy Dean** of Graduate Studies for Medical and Scientific Faculties (Medicine, Dentistry, Pharmacy, Nursing, Rehabilitation, Engineering, Sciences, Agriculture, and Information Technology)/ University of Jordan September 2007 – 2010.
- **Head of the industrial** engineering department / University of Jordan from 10 September 2006 – September 2007

Fields of Interest

- Quality Assurance in Higher Education
- Accreditation of Higher Education
- Accreditation of Testing Laboratories according to ISO 17025
- Composite Materials, Biomaterials, Testing and Modeling of Materials Behavior
- Industrial Engineering (Management, Planning, Economy)
- Production & Manufacturing Engineering (Modeling, Prototyping)
- Maintenance management

Experience in Management

- Vice president of the Higher Education Accreditation Commission (HEAC) in Jordan (Equivalent to Secretary General according to the law of heac),** August 2012 – Up to now.
- **A member of the editorial board of the Arab Journal of Quality in Education (AJQE), published by the Arab Organization for Quality Assurance in Education (2015-up to now)**
- **Journal Editorial Chair Person for the following Journals for many years:**
 1. International Journal of Industrial Engineering & Technology (IJJET) ;
ISSN (Print): 2277-4769; ISSN(Online): Applied
 2. Journal of Industrial Engineering and Research (JIER) **ISSN(Print):Applied;**

ISSN(Online): Applied

3. **Member of the editorial board** of the International Journal of Mechanical Engineering (IJME)
ISSN (Print) 2319-2240, ISSN (Online) 2319-2259.

4. **Guest Editor** of a Special Issue on "Decision Support Systems in Materials Selection",
International Journal of Computer Applications in Technology (IJCAT), Inderscience
Publishers, UK. (September 2004).

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- **Deputy Dean** of Graduate Studies for Medical and Scientific Faculties (Medicine, Pharmacy,
Nursing, Rehabilitation, Engineering, Sciences, Agriculture, and Information Technology)/
University of Jordan September 2007 – 2010.

- **Head** of the industrial engineering department/University of Jordan from 10 September 2006 –
September 2007.

- **Acting Head** of the industrial engineering department / University of Jordan in summer of the
year 2001.

- **Co-founder** of the Jordanian Foundarymen Society.

Academic and Teaching Experience

- **A professor** in the Industrial Engineering Department at The University of Jordan (April 2007 – Up
to now).

- **An associate professor** in the Industrial Engineering Department at The University of Jordan
(March 2002 – April 2007).

- **Visiting Professor Position**, Center for Business Innovation, University of Salento, Italy, Jun
2007- Jul 2007

- **Associate professor** in the department of engineering materials & metallurgy, Al-Balqa' Applied
University, Jordan, September 2003 - September 2003.

- **Visiting Professor Position**, Karlsruhe Institute of Technology (Institute of Automation and
Information Technology), University of Karlsruhe, Germany, Jun 2000-Aug 2000.

- **PostDoc. Position**, Department of Design, Manufacture and Engineering Management, University
of Strathclyde, UK, Jun 1999-Aug 1999.

- An assistant professor in the Industrial Engineering Department at The University of Jordan (13th
August 1996- 4th March 2002).

- **Teaching & Research Assistant** at the University of Jordan (1990-1993).

- **Lecturer** in the Military Technical College (1986-1988)

Experience in Industry

- **Consultant to Sukhtian Householders & Toiletries Manufacturing Co.**, 1st July 2005 – 2006.
- Rehabilitation of the staff of the Qatar Steel Company (QASCO) and solving some corrosion problems for them, in the field of corrosion control, economics and management, March 1999.
- **Consultant to the Specialised Training Institute for Metal Industries at , The Vocational Training Corporation**, 21st February 1999 - up to now.
- **A member of the team of the King Abdullah, The Second, Design Bureau to design a Jordanian Solar Car** (May 2002 – October 2002.

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Membership of committees

As a Head of committee:

- **Head of the supreme committee of the Competency-based Qualifying Exam for the alumni of Jordanian Universities, which is conducted by The Higher Education Accreditation Commission (HEAC) Each semester Since the First semester of the 2013/2014 academic Year till 2014/2016.**
- **Head of the supreme committee of Evaluation of the existing Quality Assurance (QA) Guide and Development of a new Institutional and Program QA Guide for (HEAC), 2015.**
- **Head of the committee of King Abdullah, The Second Award for excellence at HEAC for the year 2013.**
- **Head of the committee of Determination of the cognitive knowledge for the PhD holders to be certified for teaching at Jordanian Universities since September 2012 up to 2016.**
- **Head of the tenders committee of Higher Education Accreditation Commission (HEAC) since January 2013 up to now**
- **Head of the committee of the projection of quality assurance standards on Hotel management, tourism management, and event management programs for Universities and community colleges (HEAC), 2012-2013.**
- **Head of the committee of the development of the accreditation and quality assurance standards and regulations of the Higher Education Accreditation Commission 2012-2013.**
- **Head of the Scientific Committee in the department of Industrial Engineering at the University of Jordan, September 2010 – up to now.**

- **Head of the *Scientific* Committee of Higher studies affairs at the University of Jordan, September 2007 – 2010.**
- **Head of the *Medical* Committee of Higher studies affairs at the University of Jordan, September 2007 – 2010.**
- **Head** of the committee of the MSc comprehensive exam/Management stream, Industrial Engineering Department, University of Jordan, summer semester, 2007.
- **Head** of the ABET committee in the Industrial Engineering Department since 10 March 2006 – 2007.
- **Head** of the Graduation projects committee in the Industrial Engineering Department since 10 March 2006 – Sept. 2007.
- **Head** of the Academic research committee in the Industrial Engineering Department since 10 March 2006 – April 2008.
- **Head** of the steel technical standardization committee and a member of several standardization committees at The Standardization and Measurement Foundation in Jordan.

As a Member:

- **A member of the Scientific Research and Innovation Fund Committee, Ministry of Higher Education In Jordan Nov. 2019-Up to now.**
- **A member of the Team of for the Development of University of Jordan Curricula and Programs, University of Jordan, March 2019- Up to now.**
- **A member of the council of the accreditation and quality assurance center at the university of Jordan, University of Jordan, sept. 2017-up to now**
- **A member of the experts team of digital learning for the determination of licensing and accreditation requirements of digital learning, Talal Abu Ghazalah University, 2015.**
- **A member of the steering committee of the support program for employment, training, and vocational and technical education (E-TVET), leaded by MOPIC and funded by EU, October 2012-2016.**
- **Vice Head of the Supreme committee that has been formed to develop a strategy to achieve UJ's vision to become the first research-oriented university in Jordan by the year 2015, November 30th, 2010 – 2011.**
- **A member of the Steering Committee of the authors of vocational schools textbooks in the Ministry of education, September 2010 – 2014.**

- **A member** of the Scientific Committee in the faculty of Engineering at the University of Jordan, September many times since 2010.
- **A member** of the **Supreme Committee for the development of higher educational regulations and programs** (PhD, MSC, & MBA) at the university of Jordan, April 2009 – July 2010. Page | 6
- **A member** of the organizing committee of the 2nd Higher studies research conference, Organized by the Faculty of Graduate Studies, University of Jordan, which will be held in September 2009.
- **A member** of the Committee of promotion, Transferring, and appointments in the Faculty of Engineering and technology, many times since 2008.
- **A member** of the **organizing committee of the International Forum of Nuclear Energy and Nuclear Proliferation**, Organized by the Centre for Security Studies and the Faculty of Graduate Studies at the University of Jordan, which was held in June 2009.
- **A member** of the **committee of Technology planning for Jordanian Industry**, Higher Council for Science and Technology/ Jordan, July 2008- up to now.
- **A member** of the organizing committee for the 1st Higher studies research conference, Organized by the Faculty of Graduate Studies, University of Jordan, May 2008.
- **A member** of the committee for establishing an e-commerce centre at the University of Jordan with cooperation with the University of Salinto in Italy, December 2007-February 2008.
- **A member** of the Higher studies committee at the Department of Industrial Engineering, Faculty of Engineering and Technology, University of Jordan (September 2003 – up to now).
- **A member** of the Faculty of Engineering Council at Al-Balqa' Applied University in Jordan (September 2002 to September 2003).
- **A member** of the promotion and transfer committee in the Department of engineering materials and metallurgy at Al-Balqa' Applied University in Jordan (September 2002 to September 2003).
- **A member** of the Faculty of Engineering & Technology Council at the University of Jordan (Several times).
- **A member** of the **Supreme committee of developing an evaluation measures for the teaching of labs and putting a plan to implement it**. The Development of Teaching Process Office, UJ, (23rd November 1996 to 1999).
- **A member** of the committee of revising and developing the current courses and their syllabus of the undergraduate level in the Industrial Engineering Department (I.E.), UJ, (6th November 1996 – 1999).

- A member of the committee for establishing a new Industrial Engineering Department at the Jordan University of Science & Technology, 1999.
- A member of the library committee at the Faculty of Engineering and Technology as a representative of the I.E. Department for the year 1996, UJ.
- A member of several Msc. Examining committees as external or internal examiner.
- An External and Internal Examiner for several Msc theses.
- A member of the ABET committee in the faculty of Engineering and technology since 10 March 2006 – Sept. 2007.
- A member of the **Jordanian Supreme Laboratories Accreditation Committee at The Standardisation and Measurement Foundation in Jordan September** (August 2000 – February 2006).
- A member of the supervising committee of Industrial curricula development based on knowledge management, Ministry of Education, Jordan. (June 2004 – up to now).

Supervision of Graduate Students

Supervision of the following MSc. Theses in Engineering at the University of Jordan:

1. A maintenance model to increase profitability and competitiveness of companies, August, 2020.
2. Reforming of maintenance policy in Higher educational Facilities: University of Jordan as A case study, August 2020
3. Quality Function Deployment as Decision Making Approach to Select the Appropriate Maintenance Strategy, May 2019
4. Effect of the preventive maintenance on the efficiency and performance of medical laboratory instruments at royal medical services, July, 2019.
5. Total Productive Maintenance Lean Tool As An Approach To Eliminate the Breakdown Failures in Jordanian Industry, July, 2019.
6. Effect of Adding Different Percentages of Manganese and Copper on Mechanical Behavior of Aluminum, march 2013.

7. Studying the Hybrid Polymer Matrix Composite reinforced with Jordanian Silica Sand, 2012.
8. Studying The Properties Of Polymer blends Sheets For Decorative Purposes, 2012
9. Comparative study of thermosets and thermoplastic materials reinforced with Jordanian silica sand, 2012
10. The effect of glass plate thickness and interlayer polyvinyl butyral (PVB) thickness on fracture and penetration resistance in laminated glass, 2011
11. Financial Impact of Integrating Supply Chain Management for Manufacturing Case Study: Fine Hygienic Paper Co. Ltd, 2009.
12. Utilization of Project Management Tools in the Jordanian Information Technology Industry, 2009.
13. Optimum, sustainable Utilization of Wind and Solar Energies as Supplementary, Embedded Electrical Power Supply in Buildings in Jordan, 2009.
14. The influence of plasma composite surface coating on the fatigue properties of steel, 2006.
15. Jordanian Silica Sand as Reinforcement Material for Rubber Matrix Composites, 2004.
16. Improvement of Wear Resistance of Steel by Composite Coating, 2003
17. Developing A Model-based Decision Support System for the Formulation of Manufacturing Strategy, 2003.

Publications

1. **Mohammad D. Al-Tahat, Ala'a M. Al-Habashneh, Issam S. Jalham**, A Statistical Comparison of the Implementation of Concurrent Engineering in Jordanian Industry, Open Journal of Statistics, 2019, 9, 361-372.
2. **Abbas Al-Refaie, Gaith Bani Dumi, Nour Bata, and Issam Jalham**, A fuzzy Goal Programming – Regression Approach to optimize process performance of multiple responses under uncertainty, International conference on research in Education and Science (ICRES), April 28 – May 01, 2019, Cesme, Turkey.
3. **Abbas A-Refaie, Dina Ghanim, Issam Jalham, Nour Bata**, Development of a Fuzzy Hotelling T² Control Chart with Alpha Cuts for Linguistic Quality characteristics, International conference on research in Education and Science (ICRES), April 28 – May 01, 2019, Cesme, Turkey.
4. **Issam S. Jalham**, Development of Key Performance Indicators for the Engineering Education Programs in Jordan: University of Jordan as a case study, published in the proceedings of the tenth Annual conference on 'Quality and Accreditation in Education', Organized by the Arab Organization for Quality in Education (AROQA), Amman-Jordan, 2-3 December 2018, pp219-230.

5. **Abbas Al-Refaie, Ghaith Bani-Domi, Ammar Essa, Issam S. Jalham**, Optimizing Performance of Injection Molding Process Using Fuzzy Goal Programming, Proceedings of the World Congress on Engineering 2017 Vol.I WCE 2017, July 5-7, 2017, London, U.K.
6. **Lina M. Shehadeh, Issam S. Jalham**, The Effect of Adding Different Percentages of Manganese (Mn) and Copper (Cu) on the Mechanical Behavior of Aluminum, *JJMIE, Volume 10 Number 1, 2016, pp 19- 26.*
7. **Issam S. Jalham**, A Reform National Qualification Framework for Education in Jordan, *International Journal of Education and Human Development, Vol. 1, No.1; 2015, pp 37-48.* Page | 9
8. **Mohammad D. Al-Tahat and Issam S. Jalham**, A structural Equation Model and Statistical Investigation of Lean-based Quality and Productivity Improvement, Accepted for publication in *Journal of Intelligent Manufacturing, Volume 26 Issue 3, June 2015 pp 571-583.*
9. **Abbas Al-Refaie, Nour Bata, Diana Eteawi, and Issam Jalham**, Examining Factors that Affect Passenger's Overall Satisfaction and Loyalty: Evidence from Jordan Airport, *Jordan Journal of Mechanical & Industrial Engineering (JJMIE), Vol. 8, No. 2, 2014, pp 94-101.*
10. **Abdallah M. Al-Huneidi, Issam S. Jalham**, Studying the Properties of Polymer Blend Sheets for Decorative Purposes, *Jordan Journal of Mechanical & Industrial Engineering (JJMIE), Vol. 7, No. 1, 2013, pp 41-48.*
11. **S. Hemmidat, I. Jalham, and J. Nazzal**, Evaluation of Sultani Oil Shale Exploitation, Accepted for publication in the 4th Global Conference on Renewable Energy Approaches for Desert Regions (GCREEDER)- 2013, Amman-Jordan, Sept. 10th – 12th 2013.
12. **Issam S. Jalham**, Wear Resistance of Natural Rubber-base composite reinforced with Jordanian Silica Sand, Accepted for publication in *Jordan Journal of Applied Sciences, ASU, 2013.*
13. **Abbas Al-Refaie, Ming-Hsien Li, Issam Jalham, Nour Bata, and Kawther Al-Hmaideen**, Improving Performance of Tableting Process Using DMAIC and Grey Relation Analysis, IAENG International conference on Industrial Engineering, Hong Kong, 13-15 March 2013.
14. **Abbas Al-Refaie, Ibrahim Rawabdeeh, Issam Jalham, Nour Bata, and Reema Abu-Alhaj**, Optimization of Multiple Response in the Taguchi Method using desirability function and fuzzy regression, IAENG International conference on Industrial Engineering, Hong Kong, 13-15 March 2013.
15. **Issam S. Jalham and Abbas Al-Refaie**, Compressive load capacity of Bakelite Matrix Composite Reinforced with Jordanian Silica sand and cement, *Dirasat, Engineering Sciences, vol. 39, No. 1, 2013, pp 51-55.*
16. **Issam S. Jalham**, Filtrated Artificial Neural Network (ANN) approach to predict the mechanical behavior of polystyrene reinforced with Bakelite, , *Dirasat, Engineering Sciences, vol. 39, No. 1, 2013, pp 66-74.*
17. **Al-Refaie A., Rawabdeh I., Reema Ab Alhaj, Issam S. Jalham**, A fuzzy multiple regression approach for optimizing multiple responses in the Taguchi method, *International Journal of Fuzzy System Applications, 2(3), 14-35, July-September 2012.*
18. **Abbas Al-Refaie, Ming-Hsien Li, Bai-Chen Chang, Issam S. Jalham**, Application of Taguchi approach to improve performance of alignment- layer printing process in Liquid Crystal Displays, *Journal of Engineering Manufacture, Springer, 2012, pp 1241-1248.*
19. **Abbas Al-Refaie, Issam S. Jalham, and Ming-Shien Li**, Factors Influencing the Repurchase Intention and Customer Satisfaction: A Case of Jordanian Telecom Companies, *International Journal of Productivity and Quality Management (IJPQM), Inderscience Publishers, vol 10 no.3, 2012, 374 – 373.*
20. **Omar Alsaed and Issam S. Jalham**, Polyvinyl Butyral (PVB) and Ethyl Vinyl Acetate (EVA) as a Binding Material for Laminated Glass, *Jordan Journal of Mechanical and Industrial Engineering (JJMIE), vol6, No.2, 2012, 127-133.*
21. **Issam S. Jalham, Omar Al-Tahat, Iman Al-Dharaieh**, The Potential of Ras En – Nagab silica sand for glass manufacturing and Filtration (in arabic), The 6th Jordanian international mining conference, Organized by The Jordan Engineers Association, 1st November 2011.

22. **Issam S. Jalham**, A Two-stage Artificial Neural network model to predict the shrinkage of a polystyrene matrix reinforced with silica sand and cement, published in Jordan Journal of Mechanical and Industrial Engineering (JJMIE), vol 5, No. 3, 2011, 255-259.
23. **Issam S. Jalham & Omar al Saed**, The Effect of Glass Plate Thickness and Type and thickness of the Bonding Interlayer on the Mechanical Behavior of Laminated Glass, Accepted for publication in the New Journal of Glass and Ceramics (NJGC), 2011.
24. Ghassan J. Naji, Khaldoun K. Tahboub and **Issam S. Jalham**, Evaluating Small Scale, Grid Connected Wind and Solar Distributed Generation Systems in Jordan, Dirasat, Engineering Sciences vol. 38, No.1, 2011, pp 73-83. Page / 10
25. **Issam S. Jalham, Abbas Al-Refaie**, Local Jordanian Materials to Produce a Bakelite-base Construction Composite Material, Jordan Journal of Civil Engineering (JJCE), Vol.4, No.4, 2010, pp 417-425.
26. **Issam S. Jalham, Mohammad Al Janaideh**, Integrated Bio Informatics Problem Solving Approach for Engineering and Medical Sciences Problems, Proceedings of The Canadian Society for Mechanical Engineering Forum 2010 (CSME FORUM 2010), Victoria, British Columbia, Canada. June 7-9, 2010.
27. **Mohammad Al Janaideh, Subhash Rakheja, Chun-Yi Su, Issam S. Jalham**, A Generalized Prandtl-Ishlinskii Model for Compensation of Hysteresis in Smart Actuators, Proceedings of The Canadian Society for Mechanical Engineering Forum 2010 (CSME FORUM 2010), Victoria, British Columbia, Canada. June 7-9, 2010
28. **A. Al-Refaie, M. Al-Tahat, I. Jalham**, A system Dynamics Approach to Reduce Total Inventory Cost in an Airline Fueling System, the 2010 International Conference of Data Mining and Knowledge Engineering, World congress on Engineering, UK/London 30th June - 2nd July, 2010.
29. **Issam S. Jalham**, Improvement in the mechanical behavior of microwave sintered pure aluminum products based on the compacting pressure before sintering and sintering time, Dirasat, vol. 36, Engineering Sciences, No. 2, 2009, pp 97-104.
30. **Ahmad O. Hasan & Issam S. Jalham**, The Determination of Fatigue Limits and Properties of Plasma coated commercial Free Machining Mild Steel, Abhath Al-Yarmouk Journal: basic sciences and engineering, vol. 18, No. 1, 2009, pp. 43-62.
31. **Ghassan J. Naji, Khaldoun K. Tahboub, Issam S. Jalham**, Evaluating Utility Interactive Wind and Solar Distributed Generation Systems in Jordan, 2nd conference of Graduate Studies Research, 2009 confer, Organized by the Faculty of Graduate studies and the Deanship of academic Research at the University of Jordan, Amman-Jordan, October 2009.
32. **Ghassan J. Naji, Khaldoun K. Tahboub, Issam S. Jalham**, Small Scale Private Wind and Solar On-Grid Distributed Generation in Jordan: Potential and Economic Feasibility, GREEDER 2009 conference, Organized by the Energy center, University of Jordan, Amman-Jordan, 2009.
33. **Issam S. Jalham, Ziad M. Hawamdeh, and Bassam.A.Ammari**, Rapid prototyping for rehabilitation purposes, Jordan Medical Journal, vol. 42, No. 2, 2008, pp. 73-81.
34. **Mohammad Al-Tahat, Issam S. Jalham**, Tracking production rate of CONstant Work-in process (CONWIP) controlled job shop, International Journal of Integrated Supply Management, Vol. 4, No.2, 2008, pp. 230- 245.
35. **Issam S. Jalham and Ahmad O. Hasan**, Modelling and studying of the fatigue behavior of the composite coated steel, Materials Science: An Indian Journal - vol 4. iss. 1 :33-40; 2008.
36. **Issam S. Jalham, Hawking and Brendan McCarthy**, Role of Information and Communication Technology in Outsourcing projects, International Journal of Applied Information and Communication Technology, Vol. 2, No. 1, 2007, 51-66
37. **Issam S. Jalham**, case study: Design improvement of a detergent production unit for a Jordanian manufacturing company, Abhath Al-Yarmouk Journal: basic sciences and engineering, vol.16, No.2, 2007, pp.275 – 295.
38. **Issam S. Jalham**, An Approach for the Design of an Optimum Industrial Engineering Curriculum, Dirasat, Engineering Sciences vol 33 No.1, 2006, pp-37-49.

39. **Issam S. Jalham and Ibrahim J. Maita**, Testing and evaluation of rubber-base composites reinforced with silica sand, *Journal of composite materials*, vol. 40, No. 23, 2006, pp 2099-2112.
40. **Issam S. Jalham**, Computer Aided Quality Function Deployment method for Materials Selection, the *International Journal of computer applications in technology (IJCAT)*, Vol. 26, No. 4, 2006, pp 190-196
41. **Issam S. Jalham, Grabowski, H.; Lossak, R.; and Michelis, A.**, The material selection process as a part of the solution base for engineering design problems, *International Journal of computer applications in technology (IJCAT)*, 2006, pp 197-209. Page / 11
42. **Issam S. Jalham and Wafa T. Abdelkader**, Improvement of Organizational Efficiency and Effectiveness by Developing a Manufacturing Strategy Decision Support System, published in *Business Process Management Journal*, Vol. 12, No. 5, 2006, pp 588-607.
43. **Ali Alian and Issam S. Jalham**, Abrasive Wear Resistance Comparative Study of Plasma-Sprayed Steel by Magnesium Zirconate, Alumonum-bronze, Molybdenum, and Mixtures of them as Coating Materials, *Arabian Journal for Science & Engineering (AJSE)*, Vol. 31, No. 1B, 2006, pp. 27-34.
44. **Issam S. Jalham**, Decision-making integrated information technology approach for material selection, *International Journal of computer applications in technology (IJCAT)*, Vol.25, No.1, 2006, pp 65-71.
45. **Issam S. Jalham**, Process and quality improvement of plug-assist thermoforming process: a case study, *Journal of King Abdulaziz University: Engineering sciences*, vol. 16, No. 1, 2005, pp17–33.
46. **Issam S. Jalham**, The Influence of Process and Materials Variables on the Surface Properties of Polystyrene Matrix Reinforced with Silica Sand, *Journal of Thermoplastic Composite Materials*, vol. 18, No.6, 2005, pp 529-541.
47. **Issam S. Jalham and Ibrahim J. Maita**, Roll-mill Mixing Methodology to Produce Rubber-Silica Sand Composite with Promising Properties, *Abhath Al-Yarmouk Journal: basic sciences and engineering*, vol. 14, No. 1, 2005, pp. 141-156.
48. **Issam S. Jalham and Ali Alian**, Surface wear study of composite spray coated steel, *Journal of Surface Engineering*, vol.21, no.5-6, 2005, pp.431-438.
49. **Issam S. Jalham & Ali Alian**, Abrasive wear properties of spray coated steel by different ceramic composites, *Engineering Journal of the University of Qatar*, vol. 18, 2005, pp. 197-204.
50. **Issam S. Jalham**, Network Modeling Approach to Predict the Effect of the Reinforcement Content on the Hot Strength of Al-base Composites, *Journal of Composite Materials*, vol 39, No. 19, 2005, pp. 1769-1780.
51. **Issam S. Jalham**, A comparative study of some network approaches to predict the effect of reinforcement content on the hot strength of Al-base composites, *Journal of Materials Processing and Technology*, vol. 166 No.3, pp. 392-399, 2005.
52. **Issam S. Jalham**, The effect of processing and materials parameters on the shrinkage of polystyrene matrix reinforced with Silica Sand and Cement, *Journal: Dirasat, Engineering Sciences and will appear in vol 31 No.1, 2004*, pp 118 – 125.
53. **Issam S. Jalham**, The Capability of Neuro-fuzzy Network to Predict the Compressive Load Capacity of Polystyrene Matrix Reinforced with Silica Sand and Cement, *Journal: Dirasat, Engineering Sciences and will appear in vol 31 No.1, 2004*, pp 1- 8.
54. **Issam S. Jalham**, The Development of a Quality Function Deployment (QFD) Method for Material Selection, *Abhath Al-Yarmouk Journal: basic sciences and engineering*, vol.12, No.2A, 2003, pp. 295-305.
55. **Issam S. Jalham**, The Influence of Processing and Material Parameters on the compressive load capacity of Polystyrene Matrix Reinforced with Jordanian Silica Sand, *Emirates Journal for Engineering Research, Emirates Journal For Engineering Research (EJER)*, vol. 8, No. 2, 2003. pp 21-24.

56. **Issam S. Jalham**, Modelling Capability of the Artificial Neural Network (ANN) to predict the Effect of the Hot Deformation Parameters on the Strength of Al-base Metal Matrix Composites, Journal of composite science and technology, vol 63, No.1, 2003, pp 63-67.
57. **Issam S. Jalham, M. Barghash** .Modeling of the effect of the hot deformation parameters on the strength of Al- base metal matrix composites using radial –base functions network, the Journal of composite science and technology, vol 61, No. 9, pp1225-1231, 2001. Page | 12
58. **Abdulrahman Abed, Patthi bin Hussein , Issam S. Jalham , Alan Hendry**, Joining of sialon ceramics by stainless steel interlayer, The Journal of European Ceramic Society, vol 21 No.3 , 2001, pp 22803-2809.
59. **Abdulrahman Abed, Issam S. Jalham, Alan Hendry** Wetting and Reaction between b-sialon, stainless steel and Cu-Mg brazing alloys containing Ti, Journal of European Ceramic Society, vol 21 No.3 , 2001, pp 283-290.
60. **Issam S. Jalham**, The effect of lubricant type, product geometry, and process parameters on forming of tubular components of aluminum by injection forging, Abhath Al-Yarmouk Journal, pure sciences and engineering, vol. 9 , No.2, 2000, pp 149-162.
61. **Issam S. Jalham**, Jordanian silica sand and cement as a reinforcement material for polystyrene matrix composites, Journal: Dirasat, Engineering Sciences, vol 26 No.2, 1999, pp 241-250.
62. **AymanH. Almomany & Issam S. Jalham**, Anew potential of sand for industry, Emirates Journal for Engineering Research, vol 4 No.1, 1999, pp32-36.
63. **Issam S. Jalham & Omar al-Tahat**, Processing of Jordanian silica sand at Ras En-Nagab to be used in glass manufacturing and filtration, Journal of King Abdulaziz University, Engineering Sciences, Vol. 13, No. 1, 2001, p31-40.
64. **Issam S. Jalham, T.N. Baker**, The Hot Deformation Behaviour of The Aluminium Alloy AA2014 and AA2014-SiC_p MMCs During Forging, the 3rd Jordanian Mechanical and Industrial Engineering conference, University of applied Siences, Amman - Jordan, 9-12 May 1999, pp 583-609.
65. **Issam S. Jalham, T.N. Baker**, The effect of The Stress, Strain, and Temperature distribution within the deformed specimen predicted by FEM on the Macro & Microstructures developed by Hot Deformation in AA2014 Aluminium Alloy, the 3rd Jordanian Mechanical and Industrial Engineering conference, University of applied Siences, Amman - Jordan, 9-12 May 1999, p611-634

Papers in workshops and seminars

66. **Issam S. Jalham**, The Higher Education Accreditation Commission Quality Assurance System and Higher Educational Institutions in Jordan, workshop on Training on quality Assurance Procedures, ANECA, Madrid, Spain, 24-26 June 2014.
67. **Issam S. Jalham**, Quality Assurance and the High School Certificate (Tawjihi) Examination in Jordan, organized by the Faculty of Educational Sciences at the University of Jordan, 14 May 2013.
68. **Issam S. Jalham**, Reform stages of the role of Higher Education Accreditation Commission in Higher Education in Jordan, organized by the British Council in Jordan, 23 April 2013.
69. **Issam S. Jalham** “**Product Design and e- Manufacturing**” In the workshop on “The Jordanian Node of the Mediterranean School in e-Business Management, Held by the University of Salento (Lecce previously), Lecce, Italy, November 27th – 30th , 2007.
70. **Issam S. Jalham** “**From e-Business to e- Manufacturing**” In the workshop on “The Jordanian Node of the Mediterranean School in e-Business Management, Held by the University of Salento (Lecce previously), Lecce, Italy, November 27th – 30th , 2007.
71. **Issam S. Jalham** “**Industrial Engineering: Status and Curriculum Design**”, Seminar in the Industrial Engineering Department, University of Jordan, November 2006.

72. **Issam S. Jalham**, “**Problem Solving Process For Graduation project Students in the Industrial Engineering Department**”, Seminar in the Industrial Engineering Department, University of Jordan, November 2006.

Books:

73. **Issam S. Jalham** “**Experimental Laboratory Manual in Materials science and Engineering**”, **2nd edition (revised and modified)**, Publications of the University of Jordan, Deanship of Academic Research, 2010. Page / 13
74. **Issam S. Jalham** “**Experimental Laboratory Manual in Materials science and Engineering**”, Publications of the University of Jordan, Deanship of Academic Research 6 /2002.
75. **Ahmad Mostafah, Issam S. Jalham, Daod Shagboah, and Khalil Sowan**, supervision committee for the authors of the Technical School Book (in Arabic): Welding and metal working(**Special Industrial Sciences and Practice**), First Level, Secondary Technical Education, Industrial Stream, First edition, 2012.
76. **Ahmad Mostafah, Issam S. Jalham, Daod Shagboah, and Khalil Sowan**, supervision committee for the authors of the Technical School Book (in Arabic): Welding and metal working(**Special Industrial Sciences and Practice**), Second Level, Secondary Technical Education, Industrial Stream, First edition, 2013.
77. **Ahmad Mostafah, Issam S. Jalham, Daod Shagboah, and Khalil Sowan**, supervision committee for the authors of the Technical School Book (in Arabic): Welding and metal working(**Special Industrial Sciences and Practice**), Third Level, Secondary Technical Education, Industrial Stream, First edition, 2013.
78. **Ahmad Mostafah, Issam S. Jalham, Daod Shagboah, and Khalil Sowan**, supervision committee for the authors of the Technical School Book (in Arabic): Welding and metal working(**Special Industrial Sciences and Practice**), Fourth Level, Secondary Technical Education, Industrial Stream, First edition, 2013.
79. **Ahmad Mostafah, Issam S. Jalham, Daod Shagboah, and Khalil Sowan**, supervision committee for the authors of the Technical School Book (in Arabic): Welding and metal working, **Industrial Drawing**, Third Level, Secondary Technical Education, Industrial Stream, First edition, 2013.
80. **Ahmad Mostafah, Issam S. Jalham, Daod Shagboah, and Khalil Sowan**, supervision committee for the authors of the Technical School Book (in Arabic): Welding and metal working, **Industrial Drawing**, Fourth Level, Secondary Technical Education, Industrial Stream, First edition, 2013.

Conferences

- The tenth Annual conference on ‘Quality and Accreditation in Education’, Organized by the Arab Organization for Quality in Education (AROQA), Amman-Jordan, 2-3 December 2018.
- Congress on Engineering 2017 Vol.I WCE 2017, July 5-7, 2017, London, U.K.
- Participant in the National Qualification Conference for Higher Education “Towards a National Qualification framework for Jordan”, Organized by TEMPUS, Princess Sumaya University for Technology (PSUT), Amman-Jordan, 22 March 2017.
- Participant in National conference to enhance the social partnership in Jordan, organized by the

- Technical programme in support to Employment and TVET Reforms TVET council in Jordan, Crowne Plaza Hotel, Amman-Jordan, 2015.
- IAENG International conference on Industrial Engineering, Hong Kong, 13-15 March 2013
 - The 6th Jordanian international mining conference, Organized by the Jordan Engineers Association, 1st November 2011.
 - A participant in the 2nd conference of Graduate Studies Research, 2009 confer, Organized by the Faculty of Graduate studies and the Deanship of academic Research at the University of Jordan, Amman-Jordan, October 2009.
 - A participant in the GCREEDER 2009 conference, Organized by the Energy center, University of Jordan, Amman-Jordan, 2009.
 - A participant in the Leadership in Higher Education (Managing, Stimulating and Quality Assuring Research in Jordanian Universities), organized by the UNESCO, United Nations University/international Leadership Institute and the Accreditation Commission of the Higher Education Institutions in Jordan, at the United Nations University Building in Jordan, 28-29 October 2008.
 - A member of the Organizing Committee for the 1st Graduate Studies Research conference that was held between 12-14 /May/ 2008 at the University of Jordan and Organized by the Faculty of Graduate Studies.
 - A participant in the Higher Education Development Forum, Organized by the Ministry of Higher Education and Scientific Research, King Hussain Conference Centre, Dead Sea, Jordan, 11-12 February 2007.
 - A participant in the 8th Arabic Conference for the peaceful applications of Nuclear Energy Organized by the Arab Agency of Nuclear Energy and the Jordanian Agency of Nuclear Energy, Amman-Jordan, 3-7 December 2006.
 - A member of the Organizing Committee for the 1st Jordanian International conference of materials science and Engineering that was held by the Department of Materials and Metallurgical Engineering at Al-Balqa' Applied University in Jordan on 3-5 May 2005.
 - A member of the Organizing Committee for the 1st International Industrial Engineering Conference that was held between 23-27 /Sept./ 2001 at the University of Jordan and Organized by the Industrial Engineering Dept.
 - A member of the Organizing Committee (a head of the scientific committee) for the 3rd Jordanian

Mechanical and Industrial Engineering conference that was held in University of applied Sciences Amman-Jordan between 9-12 May 1999.

- **A** Participant in the Third Jordanian Mechanical & Industrial Engineering Conference (JMIEC), University of applied Sciences Amman-Jordan, 9-12 May 1999.
- **A** Participant in the First Italian - Jordanian Conference on Plastic Materials: Technology, Industry, and Environment. The Royal Cultural Centre, Amman-Jordan, 16-19 March 1998.
- **A** Participant in the International Conference on Developing Jordanian Manufacturing Industry for Prosperity. Faculty of Engineering and Technology, University of Jordan (UJ), 2-4/Sept./1996

Workshops

- E-Health Framework, workshop organized by USAID, Le Meredien Hotel, Amman- Jordan 7th May 2015.
- The Higher Education Accreditation Commission Quality Assurance System and Higher Educational Institutions in Jordan, workshop on Training on quality Assurance Procedures, ANECA, Madrid, Spain, 24-26 June 2014.
- Workshop on Decision Making and Strategic Planning, Organized by King Abdullah II Centre for Excellence, Amman-Jordan, 2012.
- Third Regional workshop, "Reorient University Curricula to address Sustainability (TEMPUS-RUCAS), 17-20, University of Jordan, Amman-Jordan. April 2012
- Leader of a discussion panel, the Future of Higher Education in Agricultural Sciences in Jordan Workshop, organized by the Faculty of Agriculture at the University of Jordan, 28 October 2008.
- **Bologna Awareness Seminar**, organized by the University of Jordan, Delegation of the European Commission to Jordan, and the Erasmus Mundus External Cooperation Window program, University of Jordan, Amman – Jordan, 20th April 2008.
- **Workshop on the Third National Tempus Day**, Organized by Tempus Office in Jordan, Princess Sumaya University for Technology, 4th March 2008.
- **Workshop on "The Jordanian Node of the Mediterranean School in e-Business Management**, Held by the University of Salento (Lecce previously), Lecce, Italy, November 27th – 30th , 2007.
- **Workshop on "Alignment of future research trends with biomedical systems and informatics engineering programs from the European perspective (TEMPUS – BIO TOUCH)"** organized by Hijawi Faculty for Engineering Technology Biomedical Center of Excellence, Yarmouk University, Irbid – Jordan, 16 July 2007.

- **ABET workshop, Assessment process in ABET EC2000 and the experience of Sultan Qaboos University in Oman**, organized by the mechanical engineering department, faculty of Engineering and technology, University of Jordan, Aman-Jordan, 24-25, June 2007 Commission to Jordan, and the Erasmus Mundus External Cooperation Window program, University of Jordan, Amman – Jordan, 20th April 2008.
- **Workshop on "Academic research: The relationship between the public and private sectors" organized by The Deanship of academic research**, University of Jordan, Amman-Jordan, 15th May 2007
- **Workshop on Intellectual property and Technology Transfer in Arab countries**, organized by The Higher council for Science and Technology, Amman – Jordan November 1999.
- **Workshop on the Needs of Jordan for the Engineering Specialization**, organized by Royal Scientific Society, Amman – Jordan 20/Oct./1997.
- **Workshop on Linking Universities with Production and Services Sectors**. organized by University of Jordan of Science and Technology, Irbid-Jordan, 24 September 1997.
- **Workshop on Education for the New Members of Staff at the UJ**. Faculty of Educational Sciences, UJ, Amman – Jordan 7-10/Sept./1996

Training Courses

A. Participation

- **Jordan Training Course on International Relations (JOTCIR)**, organized by the UNIMED as a collaborative activity between the university of Jordan and Cyprus University at the University of "La Sapienza", Rome – Italy, – **phase 4**: 10-16 June 2007.
- **Jordan Training Course on International Relations (JOTCIR)**, organized by the UNIMED as a collaborative activity between the university of Jordan and Cyprus University at the University of Jordan, Amman – Jordan, – **phase 3**: 27-31 May 2007.
- **Jordan Training Course on International Relations (JOTCIR)**, organized by the UNIMED as a collaborative activity between the university of Jordan and Cyprus University at the University of Jordan, Amman – Jordan, – **phase 2**: 22-26 April 2007.
- **Jordan Training Course on International Relations (JOTCIR)**, organized by the UNIMED as a collaborative activity between the university of Jordan and Cyprus University at the University of Jordan, Amman – Jordan, – **phase 1**: 26-29 March 2007.
- **Training course on "Materials characterization using nuclear ion beam accelerators with concentration on PIXE, PIGE, RBS, and other techniques"**, Organized by the Arab Atomic Energy Agency (AAEA), Beirut, Lebanon, 13 – 24 February 2006.
- **Training course on Computer Aided Materials Engineering (Rapid Prototyping and Remote Manufacturing)** organised by United Nations Industrial Development Organization in Italy, December 2004.
- **Training Course on Computer Integrated Manufacturing Lab. and Robotics with AMATROL Company** organized by the IE Department at the University of Jordan, 1991

B. As instructor of the following Courses

- **An** instructor for short courses on corrosion, corrosion control, economics and management to rehabilitate the staff of the Qatar Steel Company (QASCO), March 1999.
- **An** instructor for short courses on corrosion, corrosion control, economics and management to rehabilitate engineers from different companies in Saudi Arabia, August 2000.
- **An** instructor for short courses on corrosion, corrosion control, economics and management to rehabilitate engineers from different companies in Jordan, September 2001.

Consultations

- **Consultant** to Sukhtian Householders & Toiletries Manufacturing Co., 1st July 2005 – 2006
- **Consultant** to the Specialised Training Institute for Metal Industries at , The Vocational Training Corporation, 21st February 1999 - up to now
- **Consultant** to the ministry of higher education and scientific research in Jordan to evaluate PhD theses for and examining the PhD candidates for the purpose of ratification in the period:
2001 - 2002