



Prof. Dr. Eng. Mohammad D. AL-Tahat

Professor of
Design and Methods of Industrial
Engineering

6σ Certified Black Belt

6σ Certified Green Belt

6σ Certified Yellow Belt

6σ Certified White Belt

Affiliation

The University of Jordan
School of Engineering
Industrial Engineering Department
Amman – 11942 – Jordan
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■ Research Information:

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Scopus: <https://www.scopus.com/authid/detail.uri?authorId=14321285800>

[Jordan Open Innovation Platform](#)

LIVEDNA: 962.4808

■ Personnel Information

Date of birth: 20/11/1968

Nationality: Jordanian

Marital Status: Married, family members are 8.

■ Current position:

Professor of industrial and manufacturing engineering. The University of Jordan/ Jordan.

■ Total Years of Experience:

34 years

■ Major Specialty:

Design and Methods of Industrial Engineering

■ Brief biographical sketch:

Dr. Mohammad D. AL-Tahat is an accomplished professor of Industrial Engineering (IE) with extensive experience in teaching, research, and leadership in the field. He holds a B.Sc. degree in production and metallurgy engineering (1990), an M.Sc. degree in IE (1993), and a Ph.D. degree in IE from the University of Bologna- Alma Mater Studiorum (2003).

Throughout his successful 30-year career, Dr. AL-Tahat has made significant contributions to academia and industry. He has taught various IE courses, supervised over 45 master theses and more than 70 graduation projects, and published over 50 articles in reputable international journals and

conferences. Additionally, he serves as an editorial board member for over 15 international scientific journals and has reviewed numerous research papers for international journals.

Dr. AL-Tahat has held prominent positions at the University of Jordan School of Engineering, including Dean's assistant for student affairs and head of the department of industrial engineering for seven academic years, including the challenging period of the COVID-19 Pandemic.

He has also served as a visiting professor at the University of Science and Technology (JUST) in Jordan, Tabuk University in Saudi Arabia, Yarmouk University in Jordan, and as a visiting professor at LIWA college in United Arab Emirates.

Currently, Dr. AL-Tahat is a faculty member at the University of Jordan, where he is collaborating with the school of engineering to pursue his academic and research interests. His research focuses on the latest developments and applications of Lean Six Sigma and continuous improvement methodologies in both industrial and service systems.

■ Education and Academic Titles:

- | | | |
|----|--------------------|---|
| | Institution | The University of Jordan, Industrial engineering dept./ Jordan |
| | Date | November 19, 2012 |
| 1) | Academic Title | Title: Professor of Industrial Engineering |
| | Major | Industrial and manufacturing engineering |
| | Institution | The University of Jordan, Industrial engineering dept./ Jordan |
| | Date | April 9, 2008 |
| 2) | Academic Title | Title: Associate Professor of Industrial Engineering |
| | Major | Industrial and manufacturing engineering |
| | Institution | The University of Jordan, Industrial engineering dept./ Jordan |
| | Date | April 21, 2003 |
| 3) | Academic Title | Title: Assistant Professor of Industrial Engineering |
| | Major | Industrial and manufacturing engineering |
| | Institution | University of Bologna, DIEM dept., Faculty of engineering/ Italy. |
| | Date | 2000 - February 18, 2003 |
| 4) | Degree | Ph.D. in Design and Methods of Industrial Engineering |
| | Dissertation Title | Methods and Approaches in Design of Kanban-Based Lean Production System |
| | Institution | The University of Jordan, Industrial engineering dep./ Jordan |
| | Date | 1990 - 1993 |
| 5) | Degree | M.Sc. in Industrial Engineering |
| | Thesis Title | Computer-Aided Process-Planning (CAPP). |
| | Institution | University of Technology, Production & metallurgy Eng. dept. / Iraq |
| | Date | 1986 - 1990 |
| 6) | Degree | B.Sc. in Production and Metallurgy Engineering |
| | Major | Production Engineering |

■ Detailed professional records:

Period-Date	4th March 2019- 14th September 2021
Location	Jordan
Company	The University of Jordan
Position	- Chairman and Professor of the industrial engineering department - Professor
Description	Managing, supervising, and directing the industrial engineering department. Academic teaching, and research work.
No. and Kind of Employees Supervised	- 24 Faculty members - 3 Engineers, 2 Technicians, and 2 office workers - More than 900 Graduate and undergraduate students
Period-Date	September 2017- 4th March 2018
Location	Jordan
Company	The University of Jordan
Position	- Chairman and Professor of the industrial engineering department - Professor
Description	Managing, supervising, and directing the industrial engineering department. Academic teaching, and research work.
No. and Kind of Employees Supervised	- 25 Faculty members - 4 Engineers, one Technicians, and 2 office workers - More than 900 Graduate and undergraduate students

Period-Date	September 2014- September 2015
Location	Jordan
Company	The University of Jordan
Position	- Chairman and Professor of the industrial engineering department - Professor
Description	Managing, supervising, and directing the industrial engineering department. Academic teaching, and research work.
No. and Kind of Employees Supervised	- 25 Faculty members - 4 Engineers, one Technicians, and 2 office workers - More than 900 Graduate and undergraduate students

Period-Date	September 2008- September 2009
Location	Jordan
Company	The University of Jordan
Position	- Chairman of the industrial engineering department - Associate Professor
Description	Managing, supervising, and directing the industrial engineering department. Academic teaching, and research work.
No. and Kind of Employees Supervised	- 18 Faculty members - 4 Engineers, one Technicians, and 2 office workers - More than 1000 Graduate and undergraduate students

Period-Date	September 2007- September 2008
Location	Jordan
Company	The University of Jordan
Position	- Chairman of the industrial engineering department - Assistant Professor
Description	Managing, supervising, and directing the industrial engineering department. Academic teaching, and research work.
No. and Kind of Employees Supervised	- 16 Faculty members - 4 Engineers, one Technicians, and 2 office workers - More than 900 Graduate and undergraduate students

Period-Date	September 2006- September 2007
Location	Jordan
Company	The University of Jordan
Position	- Faculty Member, Rank: Assistant Professor - Dean Assistant for student's affair/ Faculty of Engineering and Technology

Description	Managing, directing, supervising, coordinating, and following up academic and other students' needs within the faculty of engineering and technology. Academic teaching, and research work.
No. and Kind of Employees Supervised	- 2 office workers - More than 5,000 Graduate and undergraduate students

Period-Date	8/2/2000 – 28/2/2003 (3 Years)
Location	Italy, DIEM department at faculty of engineering.
Company	University of Bologna
Position	Ph.D. Student and researcher
Description	Researcher in the field of design and method of industrial engineering Dissertation Title: Methods and Approaches in Design of Kanban-Based Lean Production System

Period-Date	7/8/1999-7/2/2000 (6 Months)
Location	Irbid, Jordan
Company	Jordan University of Science and Technology (JUST)
Position	Planning & Development Engineer in the department of operating and maintenance
Description	- Planning and development engineer

Period-Date	11/4/1994-23/8/1999 (4 Months)
Location	Jordan
Company	Arab Engineering Industries Company (AEICO) - Irbid Steel Foundry - at AL - Hassan Industrial Estate
Position	Sales & Marketing department head in the commercial section
Description	- Marketing and feasibility studies - Strategic marketing & planning - Competitiveness, marketing, and customers classifications - Marketing information system - Promotions. Industrial and international fairs - Analysis of products performance and customer's claims.

Period-Date	17/12/1997-10/4/1999 (1 Year and 3 Months)
Location	Jordan
Company	Arab Engineering Industries Company (AEICO) - Irbid Steel Foundry - at AL - Hassan Industrial Estate
Position	Sales & Marketing Engineer
Description	- Marketing and feasibility studies - Strategic marketing & planning - Competitiveness, marketing, and customers classifications - Marketing information system - Promotions. Industrial and international fairs - Analysis of products performance and customer's claims.

Period-Date	22/4/1995 – 16/12/1997
Location	Jordan
Company	Arab Engineering Industries Company. (AEICO)
Position	Steel Casting technologist
Description	- Measuring and drawing of castings (CMM. CAD). - Casting design (Properties, shape, material, heat treatment, and melting, molding, shake out finishing) (AFS software) - Gating systems design and casting defects, and Riser's design - Treatment of defects attributable to casting design - Patterns design. Prototyping. Casting's performance, Planning & Information Management (DEWTEC system), Computers in designing and planning of foundries

Period-Date	1/12/1994 - 21/4/1995 (5 Months)
Location	Egypt
Company	Central Metallurgical Research and Development Institute - (CMRDI)

Position	Trainer
Description	Training on Foundry Management and Technology of Steel and Iron Casting

Period-Date	14/6/1993 - 30/11/1994 (1 Year and 6 Months)
Location	Jordan
Company	Different Jordanian factories and corporation
Position	- Industrial Engineer

Period-Date	September 1991 – 13/6/1993 (2 Years and 8 Months)
Location	Jordan
Company	University of Jordan
Position	- Master Student - Teaching Assistant in the laboratories and workshops of Industrial Engineering Department. The University of Jordan.

■ **Positions and Appointments** (A total of 34 Years of Variant positions)

1. Professor of industrial and manufacturing engineering. The University of Jordan/ Jordan, 19/11/2012- Present.
2. Professor of industrial and manufacturing engineering. **Liwa college/ Abu Dhabi, United Arab Emirates**, 1/9/2023- 31/8/2024. <https://www.lc.ac.ae>
3. Head of the JU industrial engineering department, the University of Jordan/ Jordan, March. 2019 – 14th September 2021.
4. Head of the JU industrial engineering department, the University of Jordan/ Jordan, Sep.2017 – March. 2018.
5. Member of the board of trustees for Arab University College of Technology (AUCT), 26/8/2018 – Present.
6. Member of the board of trustees for Ammon Applied University College (AAUC), 26/7/2017 – 26/8/2018.
7. Visiting Professor for the industrial engineering department at Yarmouk University/ Jordan, Sep.2016 – Sep. 2017.
8. Visiting Professor for the industrial engineering department at the University of Tabuk /Saudi Arabia, Sep.2015 – Jan. 2016.
9. Head of the JU industrial engineering department, the University of Jordan/ Jordan, Sep. 2014 – Sep. 2015.
10. Editorial Board Member of Jordan Journal of Mechanical and Industrial Engineering (JJMIE), 2014 – Present.
11. Member of “the University of Jordan” Council for the academic year, Sep. 2013 – Sep. 2014.
12. Acting chair of the industrial engineering department/ The University of Jordan /Jordan, summer 2012.
13. Visiting Associate Professor" for the industrial engineering department at the Jordan University of Science and Technology/ Jordan, Sep. 2009 – Sep. 2010.
14. Head of the JU industrial engineering department, the University of Jordan/ Jordan, Sep. 2008 – Sep. 2009.
15. Associate Professor of industrial and manufacturing engineering, the University of Jordan/ Jordan, 9/4/2008- 19/11/2012.
16. Head of the JU industrial engineering department, the University of Jordan/ Jordan, Sep. 2007 – Sep. 2008,
17. Dean Assistant for student affairs/ Faculty of Engineering, the University of Jordan/ Jordan, Sep. 2006 – Sep. 2007,
18. Acting chair of the industrial engineering department/ The University of Jordan/ Jordan, summer 2006.

19. Assistance Professor of industrial and manufacturing engineering, the University of Jordan/ Jordan, 21/4/ 2003- 9/4/2008.
20. Full-time lecture for the industrial and manufacturing engineering, the University of Jordan/ Jordan, 1/3/2003- 21/4/ 2003.
21. Planning and development engineer/ planning & development engineer in the department of operating and maintenance/ Jordan University of Science and Technology (JUST)/ Jordan, 7/8/1999- 7/2/2000.
22. Head of the Sales & marketing department/ commercial section/ Arab Engineering Industries Company (AEICO)/ Jordan, 11/4/1999 - 23/8/1999.
23. Sales & marketing engineer/ Arab Engineering Industries Company (AEICO/ Jordan, 17/12/1997- 10/4/1999.
24. Steel casting technologist/ Arab Engineering Industries Company. (AEICO)/ Jordan, 22/4/1995 -16/12/1997.
25. Visiting Engineer Training to Central Metallurgical Research and Development Institute – (CMRDI) Cairo / Egypt. 1/12/1994 - 21/4/1995
26. Industrial engineer in different Jordanian factories and corporation/ Jordan, 1993 – 1994.
27. Teaching assistant in the laboratories of industrial engineering/ university of Jordan/ Jordan, Sep. 1990 - Jan1993.

■ **List of Taught Courses and Labs:**

Course #	Course Name	Level	Location
0906757	Continuous Improvements and Lean Six Sigma	Master	The University of Jordan Industrial Engineering Department
0906763	Quality Control and Reliability	Master	
0906701	Advanced operations research	Master	
0906703	Advanced production planning and control	Master	
0906703	Industrial quality control	Master	
0906721	Design and analysis of production systems	Master	
0906710	Advanced engineering economy	Master	
0936708	Systems Simulation	Master	
0906506	Lean and agile production systems	B.Sc.	
0916302	Research methods for engineering	B.Sc.	
0946581	Manufacturing Strategy	B.Sc.	
0906411	Manufacturing processes 2/metal cutting	B.Sc.	
0906525	Logistics and supply chain management	B.Sc.	
0906501	Special topics in manufacturing	B.Sc.	
0906500	Special topics in engineering management	B.Sc.	
0906421	Production planning and control	B.Sc.	
0916555	Probabilistic Operations Research	B.Sc.	
0906552	Operations research -2	B.Sc.	
0906357	Deterministic Operations Research	B.Sc.	
0906412	Laboratory of manufacturing processes	B.Sc.	
0906311	Metal forming	B.Sc.	
0906411	Metal cutting	B.Sc.	
0906310	Manufacturing processes	B.Sc.	
0906352	Quality Control	B.Sc.	
0966111	Engineering Workshop	B.Sc.	
IE564	Lean manufacturing	B.Sc.	Yarmouk University (YU)
IE 366	Manufacturing materials and processes	B.Sc.	Industrial Engineering
IE 548	Supply chain management	B.Sc.	Jordan

IE364	Product design	B.Sc.	
IE 358	Operations research	B.Sc.	
IE 566	Product planning and control	B.Sc.	
IE 367	Manufacturing materials and processes Lab.	B.Sc.	
INEN 320	Engineering statistics	B.Sc.	University of Tabuk
INEN 221	Operations research	B.Sc.	Industrial Engineering
INEN 305	Work-study	B.Sc.	Saudi Arabia
IE 747	Lean and agile production systems	Master	
IE 740	Reliability and Quality Control	Master	
IE 750	Operations Research and Management	Master	
IE 342	Operations research -1	B.Sc.	Jordan university for Science and Technology Industrial Engineering Jordan
IE 466	Manufacturing processes	B.Sc.	
IE 442	Operations research 2	B.Sc.	
IE 541	Production planning and inventory control	B.Sc.	
IE 440	Applied engineering statistics	B.Sc.	
IE 346	Manufacturing processes 1	B.Sc.	
IE 561	Tools design	B.Sc.	
IE 441	Quality control	B.Sc.	
CIS 383	Operations Research	B.Sc.	Computer Information System
IDE 340	Production planning and control		
ENGR120	Engineering Materials		
IDE 370	Manufacturing Engineering & Industry 4.0		Liwa College
IDE 450	Quality Engineering	B.Sc.	Mech. & Ind. Eng. Dep.
IDE 430	Tools for Planning and Management		United Arab Emirates
IDE200	Engineering Economy		
IDE445	Operations Research		

■ List of publications:

1. **Mohammad D. AL-Tahat**, Talal Alharbi (2024), Implementing lean management principles in the education system. *International journal of management and applied Science (IJMAS)*, Vol. 10, Issue 3. Pp: 67 – 73. https://www.iraj.in/journal/journal_file/journal_pdf/14-987-172320486767-73.pdf
2. **Mohammad D. AL-Tahat** (2024), Analysis of the Disruptions of the Digital Revolution and its Impacts on the Evolution of Continuous Improvement Methodologies and Lean Six-Sigma, *International Journal of Innovative Research and Scientific Studies*, 7(4) 2024, pages: 1563-1579. <https://doi.org/10.53894/ijirss.v7i4.3456>
3. **Mohammad D. AL-Tahat**, and Talal M. Alharbi (2024). Implementing Lean Management Principles in the Education System. *Proceeding of Research World International Conference, Jeddah, Saudi Arabia 14th - 15th February 2024. pp: 1 – 7.* <https://worldresearchlibrary.org/proceeding.php?pid=6516>
4. **AL-Tahat, M. D.**, and M. J., Mohammed. “Lean-Based Design and Analysis of a Continuous Improvement Engineering Approach for Jordanian Land Transport Industry”. *International Journal of Membrane Science and Technology*, vol. 10, no. 2, Sept. 2023, pp. 3599-0, <https://doi.org/10.15379/ijmst.v10i2.3188>.

5. **Mohammad D. AL-Tahat** (2023). Digital Technologies and the Evolution of Industry 4.0 and Agility. The 6th International Conference on Engineering and Science of Wasit University State University/ Iraq in collaboration with Euro-Arab Organization for Environmental, Water and Desert Research, Between 9-13, November 2023 in Antalya, Turkey.
6. **AL-Tahat, M. D., & Alrai, A. M.** (2023). Waste Management for Jordanian Industries Using Lean Management Principles. Wasit Journal of Engineering Sciences, 10(4), 27–32. <https://doi.org/10.31185/ejuow.Vol10.Iss4.455>
7. **AL-Tahat, M.D.** Al-Rifa'e, F., Applying a data analytics approach to medical equipment maintenance management to improve the mean time between failure and availability. Jordan Journal of Mechanical and Industrial Engineering (JJMIE), 2023, 17(1), pp. 33–40. <http://jjmie.hu.edu.jo/vol17/vol17-1/03.htm>
8. Mistarihi, M.Z., **AL-Tahat, M.D.**, AL-Nimer, S.H., Improving Process Efficiency at Pediatric Hospital Emergency Department Using an Integrated Six-Sigma Simulation Methodology. Processes, 2023, 11(2), 399, <https://doi.org/10.3390/pr11020399>
9. Inshad Jum'h and Yousef Al- Abdallat and Ehab M. Al Shamaileh and **Mohammad D. AL-Tahat** and Ahmad Telfah. (2 February 2022). "Polypyrrole-Metal Oxide-Carbon Nanocomposite Films Corrosion Enhancement on Industrial Steel".. Proceedings of the 2nd International Conference on Industry 4.0 and Artificial Intelligence (ICIAI 2021), Advances in Intelligent Systems Research, volume 175. Pp. 193-198. Atlantis Press. <https://www.atlantispress.com/proceedings/ici-ai-21/125969989>
10. **Mohammad D. AL-Tahat**; Ammar A. Alrousan; Mahmoud Z. Mistarihi; Faten Al Shalabi; Sajeda Abu-Bajah (2021). "Simulation Modelling and Analysis for Improving the Performance of Production. Case Study: Jordanian Vehicles Manufacturing Company (JVMC)", Acta logistica. Volume: 8 2021 Issue: 3 Pages: 229-236. [doi:10.22306/al.v8i3.225](https://doi.org/10.22306/al.v8i3.225)
11. **M. AL-Tahat**, I. Jalham, A. Al-Refaie, M.F.A. Yousef. (2021). "Activity-Based Cost Estimation Model for The Extrusion of Variant Aluminum Profiles", Adv. Sci. Technol. Eng. Syst. J. 6(3), 172-181 (2021), DOI:10.25046/aj06032.
12. Al-Refaie, A., **AL-Tahat, M.**, & Lepkova, N. (2020). Modeling relationships between agility, lean, resilient, green practices in cold supply chains using ISM approach. Technological and Economic Development of Economy, 26(4), 675-694. <https://doi.org/10.3846/tede.2020.12866>
13. **Mohammad D. AL-Tahat**, Mohammad Al Janaideh, Yousef Al-Abdallat, Mowafaq E. Jabri (2019) Estimation of Fuel Consumption in a Hypothesized Spoke-hub Airline Networks for the Transportation of Passengers. Jordan Journal of Mechanical and Industrial Engineering, Volume 13, Number 2, July. 2019, pp. 75 – 82. http://jjmie.hu.edu.jo/vol-13-2/jjmie_39_19-01.pdf
14. **AL-Tahat, M.D.**, Al-Habashneh, A.M. and Jalham, I.S. (2019). A Statistical Comparison of the Implementation of Concurrent Engineering in Jordanian Industry. Open Journal of Statistics, 9, 361-372. <https://doi.org/10.4236/ojs.2019.93025>
15. **Mohammad D. AL-Tahat**, Sami Abusafia (2018). Modeling of a Bernoulli-type data quality control process using hidden Markov chains. International Journal of Engineering & Technology, Vol. 7, issue 4, pp 6609-6614. <https://www.sciencepubco.com/index.php/ijet/article/view/29392/15799>
16. **Mohammad D. AL-Tahat** (2018). Sustainable Lean Management and Agile Manufacturing Philosophies. The Second International Conference on: Economic recovery in the MENA region,

a factor of sustainable development. 10-11 April 2018, Nour Bachir El Bayadh University Center, Algeria.

17. **Mohammad D. AL-Tahat**, and Ala'a M. AL-Habashneh (2017). Awareness of industries toward implementing Concurrent Engineering (CE) culture Case Study: Jordanian Industries. Proceedings of the International Conference on Industrial Engineering and Operations Management Rabat, Morocco, April 11-13, 2017. (The Best track paper Award), pp: 1131 – 1140. <http://www.xcdsystem.com/ieom/2017Annual/papers/345.pdf>
18. **Mohammad D. AL-Tahat**, Mohammad Al Janaideh, Sa'ed A. Musmar, and Mowafaq E. Jabri, (2016), Assessment of Energy Consumption Effect on the World Passenger Airline Network. The Journal of Nature Science and Sustainable Technology (JNSST: ISSN: 1933-0324.), Vol. 10, Issue 3. , 2016, pp 269-278. http://www.novapublishers.org/catalog/product_info.php?products_id=59943
19. Omar Aljanaideh, **Mohammad D. AL-Tahat**, Mohammad Al Janaideh, (2016), Rate-bias-dependent hysteresis modeling of a magnetostrictive transducer. Microsystem Technologies. ISSN: 0946-7076 (Print) 1432-1858. April 2016, Volume 22, Issue 4, pp 883-892. (1st online: 13 May 2015). <https://link.springer.com/article/10.1007%2Fs00542-015-2566-8>
20. Abbas Al-Refaie, Ruba Najdawi, **Mohammad D. AL-Tahat**, Nour Bata (2015), Window Analysis and Malmquist Index for Assessing Efficiency in a Pharmaceutical Industry, Proceedings of the World Congress on Engineering WCE 2015 Vol I, July 1 - 3, 2015, London, U.K. http://www.iaeng.org/publication/WCE2015/WCE2015_pp132-136.pdf
21. Abbas Al-Refaie, **Mohammad D. AL-Tahat**, Ruba Najdawi, (2015), Using Malmquist Index Approach to Measure Productivity Change of a Jordanian Company for Plastic Industries, American Journal of Operations Research, published on 8 September 2015, pp. 384-400. https://file.scirp.org/pdf/AJOR_2015090814105501.pdf
22. **AL-Tahat, M. D.** and Bwaliez O. (2015), Lean-Based Workforce Management in Jordanian Manufacturing Firms. Int. J. Lean Enterprise Research, Vol. 1, No. 3, PP 284: 316.
23. **AL-Tahat M. D.** and Jalham S. I. (2015) "A structural equation model and a statistical investigation of lean-based quality and productivity improvement". Journal of Intelligent Manufacturing, Volume 26, Issue 3, pp 571-583, (ISSN: 0956-5515).
24. **AL-Tahat, M.D.** (2014) "Design and Analysis of Lean Production Planning and Control System for NPF Company", Applied Mechanics and Materials Vol. 575 (2014) pp 879-883 © (2014) Trans Tech Publications, Switzerland.
25. Mohammad Hayajneh, **AL-Tahat, M.D.**, Salman Alshobaki, and Walid Khraisat (2014) "An Investigation for the Potential of Improving the Performance of Pattern Making Process in Steel Foundries: Case Study", Applied Mechanics and Materials Vol. 575 (2014) pp 900-904 © (2014) Trans Tech Publications, Switzerland.
26. Al-Refaie, A., **AL-Tahat, M.D.** (2014) "Effects of Knowledge Management and Organization Learning on Firms' Performance ", The Journal of Nature Science and Sustainable Technology (JNSST), Vol. 8, Issue 3. pp. 369-390. <https://search.proquest.com/openview/3915eeef92ae3d85960c8695d4307ecb/1?pq-origsite=gscholar&cbl=2034832>
27. Al-Refaie, A., **AL-Tahat, M.D.**, and Bata, N. (2014) " CRM/e-CRM Effects on Banks Performance and Customer-Bank Relationship Quality", Accepted on 20 April 2014 for publication in International Journal of Enterprise Information Systems (IJEIS), Vol. 10, No. 2, ISSN: 1548-1115.

28. Nabeel Al-Kurdi and **AL-Tahat M. D.** (2013) "Development and Analysis of Agile Architectural Project Design". Journal of Information, Intelligence and Knowledge (JIJK) Volume 5 Issue 4 (ISSN: 1937-7983).
29. **AL-Tahat M. D.**, Abdul Kareem M. Abdul Jawwad, and Yousef L. Abu Nahleh, 2013. "Ordinal Logistic Regression Model of Failure Mode and Effects Analysis (FMEA) in Pharmaceutical Tableting Tools". Engineering Failure Analysis (ISSN: 1350-6307), Vol. 27(2013), pp. 322-332. <https://doi.org/10.1016/j.engfailanal.2012.08.017>
30. **AL-Tahat M. D.** and Khaled M. Bataineh, (2012) "Statistical analysis and Modeling of the Implementation of Agile Manufacturing Tactics in Industrial Firms". Mathematical Problems in Engineering (ISSN: 1024-123X).. Vol. 2012. Article ID 731092. 23 pages. doi:10.1155/2012/731092.
31. Dalalah D., AL-Tahat M. D., and Khaled Bataineh. (2012) "Mutually Dependent Multi-criteria Decision Making", Fuzzy Information and Engineering, Vol. 4, Issue 2, pp. 195-216. ISSN: 1616-8658. <https://www.tandfonline.com/doi/pdf/10.1007/s12543-012-0111-3>
32. **AL-Tahat M. D.** and Shahnaz M. Alkhalil. (2012), "Evaluation and Analysis of Lean-Based Manufacturing Equipment and Technology System for Jordanian Industries". World Academy of Science, Engineering, and Technology, International Journal of Industrial and Manufacturing Engineering. Vol: 6, No: 4, 2012, pp. 1455 - 1461.
33. **AL-Tahat M. D.** and Ayman Abu Gharbieh A., "A statistical Comparative Study of ISO 9001:2000 Implementation in the Hashemite Kingdom of Jordan and in the United Arab Emirates", Accepted for publication in Dirasat, Engineering Sciences (ISSN 1569-456X), April 2012.
34. **AL-Tahat, M.D.**, and Al-Ali A. (2012) "Energy saving opportunities in Jordanian pharmaceutical industries", Perspectives of Innovations, Economics & Business, Vol. 10, Issue 1, pp.25-36. ISSN: 804-0519.
35. **AL-Tahat, M.D.**, Al-Refaie, A. and Al-Dwairi, A.F. (2012) "Performance evaluation and analysis of a JIT–Kanban production system with sampling inspection", Int. J. Industrial and Systems Engineering, Vol. 11, No. 3, pp.225–249. ISSN: 1748-5037.
36. **AL-Tahat M. D.**, Doraid Dalalah, and Mahmoud A. Barghash, (2012) "Dynamic programming model for multi-stage single product Kanban-controlled serial production line" International Journal of Intelligent Manufacturing (ISSN: 0956-5515). Vol. 23, no. 23, pp. 37-48, DOI 10.1007/s10845-009-0336-0.
37. **AL-Tahat M. D.** and Al-Refaie A. (2012), "Activity-Based Cost Estimation Model for Foundry Systems Producing Steel Castings". Jordan Journal of Mechanical and Industrial Engineering (JJMIE), Vol. 6, No.1, pp 75 – 86. ISSN 1995-6665. <http://jjmie.hu.edu.jo/files/v6n1/v6n1.pdf#page=84>
38. Rami H. Fouad, Salman D. Al-shobaki, **AL-Tahat M. D.** and Al-Refaie Abbas. (2012), "Executive Manager's Opinion About Just-In-Time Implementation Status: an Exploratory Study in the Middle East Industry", Global Journal of Researches in Engineering-G. Industrial Engineering (GJRE-G)). Vol. 12 Issue 1 Version 1.0. ISSN: 0975-5861. Publisher: Global Journals Inc. (USA)

39. **AL-Tahat M. D.** and Hasan Al-Shoubaki. (2012), "Knowledge Management of Maintenance Activities for Potable Water Distribution Business". Journal of Energy, Environment, and Economics (IJEEE). Vol. 20, no. 2, pp. 123-134 ISSN: 1054-853X.
40. **AL-Tahat M. D.** and Tayseer A. Daradkeh. (2011), "Investigating the Influence of TQM Elements on the Overall Performance of Jordanian Municipalities", Proceeding of the 4th WSEAS Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS'11). WSEAS, Barcelona, Spain, September 15-17, 2011, ISBN: 978-1-61804-031-2.
41. Mohammad Hayajneh, **AL-Tahat M. D.**, Walid Kraisat, and Salman Alshobaki. (2011), "Experimental Investigation for the Elimination of Heat Treatment-Related Distortion for the Production of 'Grizzly bar' Casting made of (12-14) % Manganese Steel", Proceeding of the 4th WSEAS Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS'11). WSEAS, Barcelona, Spain, September 15-17, 2011, ISSN: 1792-4693, ISBN: 978-1-61804-031-2.
42. Abbas Al-Refaie and **AL-Tahat M. D.**, (2011) "Solving the multi-response problem in Taguchi method by benevolent formulation in DEA" International Journal of Intelligent Manufacturing, Vol. 22: pp. 505 - 521. DOI 10.1007/s10845-009-0312-8, ISSN: 0956-5515.
43. **AL-Tahat M. D.**, A. Al-Refaie, and Fouad R. H., (2011) "Lean based performance improvement for the production of 5-Burners gas oven". Journal of Information, Intelligence and Knowledge JIIK (JIIK), Vol. 3, No. 3. ISSN 1937-7983.
44. A. Al-Refaie, L. Ming-Hsien, **AL-Tahat M. D.**, and Fouad R. H., (2011) "Applying DMAIC procedure to improve performance of LGP printing Process". International Journal Advances in Production Engineering and Management (APEM). Vol. 6, No. 1, pp 45 – 56. ISSN 1854 – 6250.
45. **AL-Tahat M. D.** and Ayman Abu Gharbieh A. (2011), "Evaluation of the Implementation of ISO 9001:2000 in the Hashemite Kingdom of Jordan and United Arab Emirates". Proceeding of the 6th International Working Conference 'Total Quality Management - Advanced and Intelligent Approaches', With Second Special Conference 'Manufacture in Serbia 2011', Belgrade, Serbia, June 7-11, 2011.
46. **AL-Tahat M. D.** and Ayman Abu Gharbieh A. (2010), "A study for the implementation of ISO 9001:2000 based on organization type". Proceeding of the International Science and Technology Conference ISTEC - 2010. Turkish Republic of Northern Cyprus. Famagusta, October 27-29. 2010.
47. A. Al-Refaie, **AL-Tahat M. D.**, and I. Jalham (2010), "A System Dynamics Approach to Reduce Total Inventory Cost in an Airline Fueling System". Proceedings of the World Congress on Engineering WCE 2010, Vol. I, June 30 - July 2, 2010, London, U.K. ISBN: 978-988-17012-9-9. ISSN: 2078-0958.
48. **AL-Tahat M. D.**, (2010), "Effective Design and Analysis of Pattern Making Process Using Value Stream Mapping", Journal of Applied Sciences. 2010. Vol. 10. No.11.pp: 878-886. ISSN: 1812-5654. DOI: 10.3923/jas.2010.878.886
49. **AL-Tahat M. D.**, and Eteir M. F., (2010), "An Investigation of the Potential of Implementing Kaizen Principles in Jordanian Industries". Int. J. Product Development, Vol. 10, Nos. 1/2/3. pp: 87-100.

50. Al Shboul A. A., **AL-Tahat M. D.**, and Abu Ghanimeh A. (2009), " Fuel poverty in Jordanian households and residences: a literature survey. Proceeding of GCREEDER 2009 Conference, Amman-Jordan. March 31st – April 2nd, 2009.
51. **AL-Tahat M. D.**, and Al Shboul A. A., (2009), "Identification and Implementation of Measures for Tangible Energy Savings at JTIC Factory, Jordan. Proceeding of GCREEDER 2009 Conference, Amman-Jordan. March 31st – April 2nd, 2009
52. **AL-Tahat M. D.**, (2009), "Re-engineering of production processes using Value Stream Mapping tool, case study: "ABC" Plant for producing tissue and hygienic paper". Journal of Information, Intelligence and Knowledge (JIIK) 2009, Vol. 1, Issue 3. pp. ISSN 1937-7983.
53. **AL-Tahat M. D.**, and Rawabdeh I. A. (2008). "Stochastic Analysis and Design of CONWIP Controlled Production Systems". Journal of Manufacturing Technology Management. Vol. 19, No. 3 pp. 253-273, <https://doi.org/10.1108/17410380810847945>
54. Abbasi G. Y., Sandouqa N. A., **AL-Tahat M. D.**, Adnan M. Mukattash. (2007). "A look into Jordan's Large Manufacturing Industries' Risks. International Journal of Risk Management. Vol. 9, No. 2 pp.108-117
55. Al-Momani K. R., **AL-Tahat M. D.**, Jaradat E. T. (2006), "Performance Measures for Improvement of Maintenance Effectiveness: A Case Study in King Abdullah University Hospital (KAUH)". Proceeding of the International Conference on Service Systems and Service Management (ICSSSM'06). The University of Technology of Troyes. October 25-27, 2006. <https://ieeexplore.ieee.org/document/4114506>
56. Al Shboul A. A., **AL-Tahat M. D.**, (2007), "Modeling of Building Evacuation Processes Intended for Public Buildings", International Journal of Architectural Science Review. Vol. 50, No. 1, pp. 37-43.
57. **AL-Tahat M. D.**, and Jalham S. I. (2008) 'Tracking production rate of CONstant Work-In-Process (CONWIP) controlled job shop', Int. J. Integrated Supply Management, Vol. 4, No. 2, pp. 230 – 245.
58. Mukattash A., **AL-Tahat M. D.**, (2006), "A developed Mathematical computerized approach for designing cellular manufacturing systems", Journal of Applied Sciences, Vol. 6, No. 9, pp.1915-1923, 2006. ISSN 1812-5654.
59. **AL-Tahat M. D.**, Mukattash A. (2006), "Design and analysis of production control scheme for Kanban-based JIT environment", Elsevier, Journal of the Franklin Institute, Vol. 34, No. 3, pp. 521-531.
60. **AL-Tahat M. D.**, (2005), "Optimizing of Work in Progress (WIP) in Kanban Controlled Production Lines". Dirasat, Engineering Sciences, Vol. 32, No. 2, pp. 123-132. ISSN 1569-456X. <https://pdfs.semanticscholar.org/1de9/2f76500ecdf2f8b9f140e24f97f98fba3fe4.pdf>
61. **AL-Tahat M. D.** (2005), "A Queuing-Based Control Strategy for Kanban Controlled Manufacturing systems". Proceeding of the 3rd Minia International Conference for advanced trends in Engineering. 3-5 April 2005 Egypt. El-Minia.
62. **AL-Tahat M. D.** (2005), "Investigation of a Queuing-Based Coordination Method for a Single-Stage Kanban Controlled Supply Chain". Proceeding of the 1st National Conference on Logistics & Supply Chain 14-15 February 2005 Tehran. Iran.

63. **AL-Tahat M. D.** (2003), “Methods and Approaches in Design of Kanban-Based Lean Production System”. Dissertation thesis in design and methods of Industrial engineering under the supervision of, F. Persiani and A. Liverani, University of Bologna. Italy.
64. **AL-Tahat M. D., A. Liverani, F. Persiani, G. Caligiana.** (2002), “Using Genetic Algorithms to Optimize Kanban-based Production System”. Proceeding of the European Applied Business Research Conference. 2002, June 17 –21. Rothenburg-Germany
65. **AL-Tahat M. D., A. Liverani, and F. Persiani.** (2001), “Computer Supported Design of Flexible Kanban System for A Multi-Stage Multi-Product Manufacturing” Proceeding of the 1st International Industrial Engineering Conference. 2001, Sept.23-27. Amman-Jordan.
66. **AL-Tahat M. D., A. Liverani, F. Persiani.** (2001), “Design of a Marketing Decision Support Method for Price Quotation In a multi-Stage Single-product Kanban-Based Manufacturing Environment”. Proceeding of the XII ADM International Conference, 2001, Sept.5-7. Rimini – Italy.
67. **AL-Tahat M. D.,** “Computer-aided process planning”. Master Thesis in Industrial Engineering under the supervision of, Z. Tahboub, S. Al-Bermani. 1993. The University of Jordan.

■ Awards and Scholarships:

- Best track paper award in engineering management, the international conference on industrial engineering and operations management Rabat, Morocco, April 11-13, 2017.
- The University of Jordan scholarship, Jordan, 2000 – 2003 for obtaining Ph.D. degree in design and methods of industrial engineering, University of Bologna – Italy.
- Ministry of higher education scholarship, Jordan, 1986 – 1990 for obtaining the B.Sc. degree in production and metallurgy Engineering, University of Technology, Iraq

■ Master thesis supervision

S.N.	Date	Thesis title	Student
1	Jan. 2023	Implementing Six-Sigma Methodology to improve quality of blended education in Jordanian higher education facilities	Ahmad Mohammad Ahmad Naqrash
2	Jan. 2023	Applying Lean Six Sigma to Improve Food Distribution in Refugee Camps in Jordan in the Context of the Corona Pandemic	Reem Suleiman Qudah
3	September 2022	Evaluating quality services perceived by clients of industrial supply companies in Jordan	Ayat Nafez Rasheed Alrabi
4	August 2022	Studying the improvement of production and blending processes at JOPETROL lubricants plant using lean six sigma methodology	Hisham Mahmoud Suliman Alghwiri
5	May 2022	Decisions making based on a combination of AHP, and TOPSIS for the selection of maintenance methods for medical equipment.	Waseem Bakheet AL-hawari
6	Jan. 2022	Genetic modeling of a Kanban-based production System	Asma’a Saleh Manaseer
7	Jan. 2022	Proposing a predictive maintenance model for medical devices using big data analytics: a case study	Farah Abdallah Al-Rifa'ei
8	August 2021	Improving Quality Services in Jordanian Banks by Employing Six Sigma DMAIC Approach	Saja Mohammad Al-Sarhan

9	August 2021	The Effect of Reliability Improvement on Systems Productivity. Case Study: A Poultry Processing Plant	Mohammad Tawfiq Al-Mqbel
10	18 May 2021	A Simulation Model for Improving Waiting Time for Pediatric Patients at the Emergency Department in Princess Rahma Hospital by Employing Six-Sigma Methodology using the DMAIC Steps	Saif Haitham Qadri AL-Nimer
11	20 May 2021	Key Performance Indicators Analysis for improving efficiency of Jordanian Transport and shipping Companies.	Mohammed Juma Mohammed Alka'bi
12	20 May 2021	Process Capability Analysis of the Radioisotope Facility in Jordan Research and Training Reactor.	Shorouq Daher Al-Assaf
13	August 2020	Activity-Based Costing (ABC) system for Aluminum extrusion factory producing variant profiles	Mohammed Abdelfattah Alhaj Yousef
14	August 2020	Lean Based Quality Improvement at Jordan Atomic Energy Commission Laboratories	Belal Husam Abdullah Qtaishat
15	May 2020	A case study of Inventory management modeling for a small business	Lara Khair Yahya
16	May 2020	Resources Management for Astra Quail Project	Mohannad Barhoumeh
17	Dec. 2019	Simulation Analysis of a Dual-Card Kanban-Based Just-In-Time (JIT) Production System	Shorouq Malik Issa AlRawashdeh
18	Dec. 2019	Studying the Implementation of Lean Management Principles in Teaching Systems	Talal Mubarak Al-Harby
19	Nov. 2019	Decisions-making based on the Analytical Hierarchy Process (AHP) for launching new medical products	Abeer Aljbour
20	July 2019	Developing a Quality Function Deployment Model for Healthcare Management: A Case Study in a Section at Hospital	Hala Awamleh
21	June 2019	A Quality Function Deployment (QFD) approach for the evaluation of the alertness of Jordanian production systems toward implementing lean methodologies	Shahad M. A. Abdulateef
22	Dec. 2018	Construction Waste Management in Jordan Using Lean Principles	Abdelrahman Mohammed Alrai
23	Dec. 2018	Quality Function Deployment Model For the Laboratory and Quality Affairs at Water Authority of Jordan	Abeer Salem Alassaf
24	May 2017	Productivity Improvements Using 6-Sigma (6S) Methodology: A Real-Life Case Study	Maisa Alnsour
25	Dec. 2017	Modeling of an Attribute-Data-Quality-Control Process Using Hidden Markov Chains	Sami Abu Safiah
26	August 2016	Studying the level of implementing concurrent engineering fundamentals in Jordanian Industries	Ala'a M. AL-Habashneh

27	May 2016	Estimation of Fuel Consumption in a Hypothesized Spoke-hub Worldwide Airlines Paradigm for the transportation of Passengers	Mowafaq E. Jabri
28	May 2016	Assessment of Innovation Implementation in Jordanian Healthcare Enterprises	Rawan L. Abed
29	August 2015	Scheduling of Pharmaceutical Production Line Using Mixed Integer Programing	Osama Lutfi Al-refai
30	May 2015	A Structural Equation Modeling and a Statistical Analysis for the Implementation of Lean Management Practices in Jordanian Pharmaceutical Industries	Enas Hamdan
31	May 2015	A Simulation Model for Analyzing and Redesigning Supply Chain for an Industrial Jordanian Firm.	Mohammad Faris
32	May 2015	Modeling a Strategic-Driven Selection of Supply Chain Performance Measures – HOQ Approach	Malek Abdelkareem AL-Bakri
33	August 2012	Design and analysis of lean-based workforce management in Jordanian Industry	Omar Bawaliez
34	Dec. 2011	Predictive maintenance for medical equipment	Ayat Ahmad Wahbeh
35	Dec. 2011	Optimal scheduling of preventive maintenance procedures for cigarette production line of Union Tobacco Company-Jordan.	Ayman M. Awad
36	May 2011	Development of an assessment tool for the implementation of lean production principles in the Jordanian industries	Shahnaz Alkhalil
37	April 2011	Life Cycle Cost Analysis to Examine Introducing Hydrogen as an Alternative Fuel in Jordan	Martin Khzouz
38	Nov. 2010	Energy Saving Opportunities in Jordanian Pharmaceutical Industry	Areen Adel Husni Al-Ali
39	July 2010	Failure Mode and effects analysis (FMEA) In the Pharmaceutical Tableting Tools	Yousef A. Abu Nahleh
40	March 2010	Developing an Expert Operations and Maintenance Management System (EOMMS) in Jordan Water Company - MIYAHUNA	Hassan Alshobaki
41	Dec. 2008	A Comparative Study for ISO 9001:2000 Implementation in The Hashemite Kingdom of Jordan and the United Arab Emirates state "	Ayman F. Abu Gharbieh
42	Nov. 2008	Process Re-Engineering of the Prevention and Self Protection Department at the Jordanian Civil Defense	Diana S. Al-Rbihat
43	Aug. 2007	Applying the Concept of Total Quality Management in Irbid greater Municipality	Tayseer A. Daradkeh

44	May 2007	Studying the ability of Jordanian Manufacturing Companies to utilize the principles of Continuous Improvement (KAIZEN)	Murad F. Eteir
45	May 2005	Analysis of KANBAN- Based JIT Production system based on Queuing Theory	Khaldoun B. Al-Shreideh

■ Articles' Reviews

- Cogent Business & Management; 2023 (Ref.: Ms. No. COGENTBUSINESS-2022-1167),
- Arabian Journal for Science and Engineering AJSE. 2023 (Ms. No. AJSE-D-22-06348R1), 2017(AJSE-D-17-00929R2), 2018, 2019 (AJSE-D-19-03089), 2023 (Ms. No. AJSE-D-22-06348).
- JJMIE- Jordan Journal of mechanical and industrial engineering, The Hashemite University/ Jordan, 2022 (JJMIE -218-22), 2016 (JJMIE-106-16, JJMIE-51-16), 2014 (JJMIE-25-14).
- Industrial Engineering & Management Systems, 2021 (manuscript # IEMS-2021-0088), 2022 (manuscript # IEMS-2021-0085).
- Journal of the Mechanical Behavior of Materials, 2022 (JMBM-D-22-00004).
- The journal e-Polymers. 2021(manuscript epoly.2021.0065).
- Advances in Science, Technology and Engineering Systems Journal ASTESJ, 2021(Manuscript ID: 21M-06-526, Manuscript ID: 21M-06-528, Manuscript ID: 21M-02-197).
- Transactions of the Institute of Measurement and Control, SAGE, 2020 (manuscript # TIMC-20-0399), 2019 (manuscript # TIMC-19-016), 2015 (Manuscript ID TIMC-15-0566), 2013 (manuscript # TIMC-13-0105).
- The International Journal for Quality Assurance IJQA. 2019 (Reviewer ID: 116).
- Operational Research, S.I.: Optimization of Ambient, 2016 (ORIJ-D-16-00280R2).
- Operational Research: An International Journal, 2016 (Ms. No. ORIJ-D-16-00280)
- International Journal of Production Research, 2016 (ID TPRS-2016-IJPR-1071).
- Science Journal of Business and Management SJBm, 2016(1751108)
- American Journal of Operations Research (AJOR), 2016 (1040499).
- Contemporary Economics, 2015 (manuscript # CE-2014-0046)
- Journal of Nature Science and Sustainable Technology (JNSST), Nova Science Publishers, 2011, 2015 (JNSST AAR2), and 2016 (JNSST AAR3).
- Journal of Intelligent Manufacturing (JIM), Springer, 2008, 2010, 2011, and 2014 (JIMS-D-14-00066).
- International Journal of Modelling in Operations Management (IJMOM), 2013 (IJMOM_54382)
- Journal of Renewable and Sustainable Energy, 2012 (JRSE: MS #RE-120625R).
- Technological and Economic Development of Economy, 2021(TTED-2021-0016).
- International Journal of Science, Technology and Society, Science publishing group, 2014.
- Journal of Information, Intelligence, and Knowledge (JIJK), Nova Science Publishers, 2011.
- Humanitarian Logistics and Supply Chain Management, Emerald, 2011.
- Measurement, Elsevier, 2009.
- Int. J. of Systems Science, Taylor and Francis, 2008.
- Int. J. of Adaptive Infrastructures, Inderscience publishers, 2008.
- Int. J. of Manufacturing Technology and Management, Inderscience Publishers, 2008.
- Int. J. of Intelligent Systems Technologies and Applications, Inderscience Publishers, 2007.

- WSEAS Conferences and Journals, World Scientific and Engineering Academy and Society. 2012, and 2013.

■ Promotions Reviews

- The Hashemite University, 2022. Book Chapters & a book evaluation for a faculty member.
- Frequent referee of faculty promotions for several local and international universities and institutions in the fields of industrial engineering, manufacturing engineering, and materials science for the following Universities (selected):
 - Ahlia University/Bahrain
 - The Hashemite University/Jordan
 - The University of Jordan/ Jordan.
 - Albasrah University/ Iraq (2017).
 - Babylon University/ Iraq جامعة بابل في العراق (2016)
 - Ajloun National University/ Jordan.
 - Majmaah University/ KSA, (2012).
 - Jordan University of Science and Technology (JUST)/ Jordan.

■ Awards Reviews

- Best thesis award for academic Universities in Jordan, 2012. Scientific Research Support Fund/ Ministry of higher education and scientific research.

■ Research Projects Reviews

- Scientific Research Support Fund, University of Applied Sciences, 2015.
- Scientific Research Support Fund, Ministry of higher education and scientific research, 2013.

■ Memberships and Editorial Boards

- Member of Jordan Engineering Association, 1991 – Present.
- Member of the Human Resources Development Committee/ metals and mining Sector for the National Center for Human Resources Development. 2019.
https://www.nchrd.gov.jo/assets/PDF/Studies/Sectoral/Gap_Study_Minerals_Ar.pdf
- Advisory Board Member of 31st World Conference on Applied Science, Engineering and Technology (WCASET) - (VIRTUAL CONFERENCE) 13th November 2020.
<https://wcaset.com/virtual-conference/31st-wcaset/advisory-board.php>.
- An accredited external examiner for the George Washington University Masters theses in Industrial Engineering hosted by Al Ahlia University - Bahrain. July 2019- present.
- Member of the board of trustees for Arab University College of Technology, Oct. 2018 – Oct. 2022. <http://arabcommunitycollege.edu.jo/Default.aspx?Lng=1&P=1st7&T=1&S=1&Q=5>
- Member of the board of trustees for Ammon Applied University College (AAUC), 26/7/2017 – Oct. 2018. <http://www.aauc.edu.jo/SubDefault.aspx?PageId=186&MenuId=18>
- Editorial Board Member of the International Journal of Adaptive Infrastructure. 2009 - Present. Inderscience publishers. <https://www.inderscience.com/jhome.php?jcode=ijais>.
- Editorial Board Member of Jordan Journal of Mechanical and Industrial Engineering (JJMIE), 2014 – Sep 2022. <http://jjmie.hu.edu.jo/>
- Editorial Board Member of International Journal of Aeronautics and Aerospace Engineering, 2018 – present. <https://madridge.org/Journal-of-Aeronautics-and-Aerospace-Engineering/editors.php>.
- Member of “the University of Jordan” Council for the academic year, Sep. 2013 – Sep. 2014.
- Executive Editor Member of Journal of Mechanical Engineering and Modern Technology, JMEMT 2016-2017.

- Member of the advisory committee for the international conference on Industrial Engineering and Operations Management. Organized by IEOM Society. 2017 – Present.
<http://ieomsociety.org/manila2023/committee/>
- Editorial Board Member of International Distance Education Conference, IDEC 2015 - Present.
http://www.id-ec.net/editorial_board.
- Reviewer for conferences and journals of WSEAS (World Scientific and Engineering Academy and Society), 2012 – Present. <https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.wseas.org%2Fmain%2Ffiles%2FWSEASReviewers.xlsx&wdOrigin=BROWSELINK>
- Editorial Board Member of the International Journal of Global Engineers & Technologists Review, (GET view). Malaysian Citation Centre, Ministry of Education, Malaysia.
<http://www.publicscienceframework.org/journal/joineditorialmember/jjeit.html>.
- Member of Organizing and Scientific Committee for International Global Conference on Renewable Energy Approaches of Desert Regions GCREADER 2008, April 2009, Amman, Jordan.
- Founder and Member of Jordan Foundrymen Association
- Founder of Leading Cultural Forum LCF
- Founder of Jordan Society for Ethics JSE

■ Other Committees

- Member of the jury for the Jordanian Engineers Association competition for the award of the best-conducted graduation project in the industrial sector for the year 2022.
- Accreditation auditor for master program of science degree in engineering management at the school of systems engineering and applied science at Ahlia university in Bahrain collaborated with the George Washington university, (2022).
- Chair of accreditation committee for German Jordanian University/ Master Program (2018).
- Member of Competency exit exam/ industrial engineers, committee accreditation and quality assurance commission for higher education institutions, cycle 2014, and cycle 2017.
- Member of many accreditation committees.
 - (2016) for Mutah University/ Systems Engineering.
 - (2015) for German Jordanian University/ Industrial Engineering.
 - (2014) for German Jordanian University/ Logistics Science.

■ Graduation projects supervision.

1. Farah Mohammad Abu Shareefeh, Saba Mohammad Qudah, Sara Khaled Al-Kurdi, Sira Jihad Abu-Ashour. Supply Chain Management: Demand Planning, Improving Distribution System and Testing the Efficiency. January 2023.
2. Omar AL-Hababbeh, Mahmoud, Laith Ala'mar, Salah Hanan. Lean process improvement in Telal Rum Aluminum Factory: A value stream mapping and overall equipment effective tools, January 2023.
3. Hussam Moh'd Fawarseh, Zain Ghassan Arab, Bilal Suliman Aljaber, reducing length of stay for patients in emergency department: A case study at Al-Esra'a hospital. January 2023.
4. Haya AbuDhaim, Maya Kharma, Saeed Athamneh, and Laith Yaseen. Enhancing the Processes of (ALBayrouthy) Food Factory Using Lean Six Sigma, May 2022.
5. Abdallah Altawil, Mohammed AlWathaifi, Hamza Anaya, Mishael Albasha, Analyzing the Overall Equipment Effectiveness (OEE) through DMAIC Approach for Dar-AlDawa Pharmaceuticals Company, January 2022.
6. Rawan Waswas, Dina Al-qatarneh, 20 Keys to Workplace Improvement, January 2022.
7. Sama Khaled, Batool Nedal, Lean Applications Techniques in Teaching Processes (Case Study: Industrial Engineering Department in The University of Jordan), January 2022.

8. Marwan Abu Hamad, Mohammad Abu Moqabel, Falah Al-Khatib, Stochastic modeling for the spreading of COVID-19 in Jordan, May 2021.
9. Raad Bilal Al Hunaiti, Amer Fathi Al Khlaifat, Hamza Saoud Al Nusairat, Mohammad Emad Al Masri, Solar Food Dryer, Jan. 2021.
10. Ahmad Abuawwad, Diana Kashour, Haneen Al-Sheyyab, Ola Al-Fayez, Six Sigma Methodology for the improvement of Tobacco Industry, May 2020.
11. Raghad Aqel, Rolan Al-sharairah, Rahaf Khaleel, Saad Fares. Design and analysis of Logistics network for Golden Arrow Food Marketing May 2020.
12. Casting design for the tooth of an excavator, December 2019.
13. Ergonomics chair design
14. Inas Abu Hemaïd, Haneen AL-Jabali, Aseel Qtaishat, and Manal Shagbouah. Casting design: case study Clothes hunger. May 2018
15. Shatha Habahbeh, and Jana Shashaa, Feasibility Study of establishing a consultation center. May 2018.
16. Loey Jagoob, Asseel Sharaeah, Tala Al-Taani. Shipping Improvement at JPM. May 2018.
17. Mohammad Rahamneh, A trial toward designing a CNC machine. May 2018
18. Faten Hani AL-Shalabi and Sajeda Mohammad ABU-Bajah. Developed and Evaluation of production line using ARENA software: JLVM as Case Study. May 2017
19. Bayan A. S., Haya A. S., Farah A. B., and Razan A. K. A Structural Equation Model of Innovative Health-Care Management System. May 2015.
20. Ruqia AL-Ja'afreh, Raya AL-Masri, Manar AL-Shamaileh, and Rand AL-Salwh. Queuing-based assessment of the performance of banking services, case study: Bank of Jordan. May 2013.
21. Amneh Nazzal, Ayat AL- Mughrabe, and Enas AL-Salaymeh. Faculty member selection using the Analytic Hierarchy Process (AHP). May 2013.
22. Yazan, Hatham, Mohammad AL-Falah, and Abdullah AL-Oran. Creating and Marketing an E-Commerce website. May 2013.
23. Ala'a AL-Marzouq, Asala AL-Tarakyah, Mais AL-Tarawneh, and Noor AL-Bokairat. Lean based project management. May 2013.
24. Ala'a Al-Hbashneh, Aseel Al-Sound, and Asma'a Al-Sadonee. Concurrent Engineering. May 2012.
25. Liana Y. Mahmoud and Rawan S. Wadi. Lean-based production planning and inventory control systems. May 2012.
26. Bilal Abdulrazzaq, Mohammad Abo Alrob, Amer AL- Ghathban, and Ahmad Alzubi. Design and analysis of lean-based shop floor management system. January 2012.
27. Mohammed Seder, Maha Balawi, Thamer Al-Awamleh, and Omid Rasmi. Design and analysis of lean-based processes technology and Know-How Management System. January 2012.
28. Danna Abu Naaj, Doa'a Al-Atiyat, Rahmah, Almasri, and Farah Abu-Shattal. Design and analysis of lean-based production planning and inventory control system. January 2012.
29. Ahmad Arafat, Ziyad AL-Bizreh, and Jawdat Higab. Design and analysis of lean-based supplier relationship management system. January 2012.
30. Alhassan Ali, Ahmad Jaber, Issa Salman, and Nemer Albahrat. Design and analysis of lean-based product design and development model. January 2012.
31. Mohammaed Zyadeh, Ahmad Abo-Arqoup, Yazeed Abu-Hamour, and Mohammed Sa'ed. Design and analysis of lean based layout design, case study: Al-Hussam Plastic Industries Co. May 2011
32. Halemah Atiyat, Muna AL-Rjailat, Ohood AL-Eiafan, and Zina AL-Nobani. Design and analysis of lean customer relationship management system, May 2011.

33. Diala AL-Hyari, Hiba Karadsheh, Nadeen Aburub, and Omer AL-Assi. Design and analysis of lean-based workforce management system, May 2011.
34. Ahmad Fahmawi, Khalid Abdqader, and Osama Zmeili. Design and analysis of lean-based Quality and Productivity Improvement and measures system, May 2011.
35. Ahmad M.A. Mahasneh and Mohammad Na'amneh. Assessment of the implementation level of some lean management tools in Jordanian industries. May 2010.
36. Ala' Mubasher, Abeer Abd-Arrahman, and Linda Fakhoury. Improvement of the maintenance department at Ibn Alhaithem Hospital, January 2009.
37. Layth S. Haddad, Rawan S. Habash, and Sara M. Oweis. Transshipment modeling of Ghadeer distribution network, January 2009.
38. Seren Mukattash, Maha Ghrayyeb, and Shatha Ahmad. Analysis of Petri nets, May 2008.
39. Ehab Melhem, Rawan Al-Amr, and Fadi Al-Hourani. Implementation of Six Sigma Principles in Jordan Data Systems JDS, May 2008.
40. Yousef Mohammad, Mohammad Hasweh, Mohammad Mubideen, and Ahmad Maraqah. Energy Management at Jordan Tobacco International factory, May 2008.
41. Ahmad Al-Naser, Ahmad Al-Esawi, Ibrahim Omari, and Zaid Al-Jazi. Value Stream Mapping VSM, Petra Aluminum Company, May 2008.
42. Asem Thyabat, Houston, and Omar Jaradat. Lean-Based Analysis and Evaluation of National paints Production system: Alkyd department, January 2008.
43. Anood Efaishat, Hala Madanat, and Zeena Borgan. Value Stream Mapping. January 2008.
44. Mohammad Mahmoud, Bajis Al-Majali, Haneen Al-Sharaiha, and Mohammad Al-Thaher. Production Line Analysis for Crown Can Co. Ltd. May 2007.
45. Salah Mourtaga and Sahel Azizi. Implementation of Queuing Theory on Cairo Amman Bank May 2007.
46. Mohammad Abu Safieh, Fares Haddadin, and Hussein Tadros. An approach for seeking ABET accreditation for the industrial engineering department. May 2007.
47. Abdelkader Rawashdeh, Jamal Abdeen, Zaid Hassan, and Murtada Abu-Hadi. Effective design and analysis of gas cocker assembly line, case study: Rum-Aladdin Industries Company, May 2006.
48. Naeem Al-Kilany, Ayham Al-Masaadeh. Implementation of Total Quality Management principles in ARITAL Company. January 2006.
49. Mohammed S. Shatrit. Effective design of varnish cleaning system for ink industry. May 2005.

■ Industrial Projects and Technical Studies

1. AL-Tahat M. D., Sep. 2003. Process Improvement and productivity, a study for Arab Engineering Industries Company AEICO. Supported through Faculty for Factory program 1st cycle 2003. The University of Jordan.
2. AL-Tahat M. D., Sep. 2004. Analysis of Cost Estimating Method at Arab Engineering Industries Company AEICO. Supported through Faculty for Factory program 2nd cycle 2004. The University of Jordan.
3. AL-Tahat M. D., Sep. 2005. Analysis and Design development of the Gas Cocker Assembly Line at Rum Metal Manufacturing Company. Supported through Faculty for Factory program 3rd cycle 2005. The University of Jordan.

4. AL-Tahat M. D., Sep. 2006. Design and Analysis of Effective Quality System and Methods for Arab Company for Italian wood Manufactures (ARITAL). Supported through Faculty for Factory program 4th cycle 2006. The University of Jordan.
5. AL-Tahat M. D., Sep. 2007. Design and Analysis of Effective Production Planning and Control System for Company of National Paints Factories/ Sayegh Group. Supported through Faculty for Factory program 5th cycle 2007. The University of Jordan.
6. AL-Tahat M. D. and others, Oct. 2007. A study for heat treatment problems and evaluation of the pattern production technology At Arab Engineering Industries CO. (AEICO). Supported Through Higher Council of Science and Technology (HCST), Jordan.
7. AL-Tahat M. D. and others, Sep. 2008. Stand-Alone Photovoltaic Systems using solar energy for the ring road of Amman City, A feasibility and technical study, presented to the ministry of public works and housing.

■ **Conducted Training Programs:**

S. n.	Country	Place	Period	Program Title	Hours	Participants	Organizer
1	KSA	Dammam Khubar	23 rd -27 th November 2014	Supply chain management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
2	KSA	Jeddah	26 th -30 th October 2014	Supply chain management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
3	KSA	Jeddah	15 th -19 th June 2014	Supply chain management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
4	KSA	Dammam Khubar	8 th -12 th December 2013	Inventory management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
5	KSA	Jeddah	29 th Sep.- 10 th Octo. 2013	Inventory management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education

							Company Ltd.
6	KSA	Dammam Khubar	25 th -29 th August 2013	Inventory management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
7	KSA	Jeddah	30 th June – 4 th July 2013	Inventory management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
8	KSA	Jeddah	8 th – 12 th June 2013	Inventory management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
9	KSA	Jeddah	11 th – 15 th May 2013	Inventory management	40	Employees of Saline Water Conversion Corporation	Success Steps Training and Education Company Ltd.
■ Attended Training Programs. 1. Online and blended learning workshop, 5-7 July 2022 2. PRIMA Proposal Writing Workshop and Info Session for Egypt, Jordan and Turkey, February 10th, 2022. 3. Higher Education Policy Dialogue (Advance Higher Education Fellowships and A Professional Standards Framework for teaching and supporting learning in Jordan's Higher Education), December 1st, 2021. 4. Successful completion of the advanced innovation and entrepreneurship online training of trainers from the 31st of October to the 11th of November 2021. Innovety, care Jordan, H.M. foundation and Faculty for Factory. 5. Lean and Six Sigma Black Belt training during August 2021, ANEXAS EUROPE, Certificate No. BBKSA130821/1927/07. 6. Lean and Six Sigma Green Belt training during July - August 2021, ANEXAS EUROPE, Certificate No. GBKSA230721/1912/08. 7. Lean and Six Sigma Yellow Belt training during July 2021, ANEXAS EUROPE, Certificate No. YBDL230721/034/15. 8. Lean and Six Sigma White Belt training during July 2021, ANEXAS EUROPE, Certificate No. WBDL230721/1913/15. 9. One-week intensive training course on resource efficiency in industry - UNIDO TEST methodology. September 6-10, 2020, Royal scientific society and United Nations Industrial Development Organization, Jordan.							

10. One-Week intensive training course on innovation and entrepreneurship. November 12-16, 2012, COMSTECH building, 33-constitution avenue, G-5/2, Islamabad, Pakistan.
11. Foundry technology of steel and iron castings. Central metallurgical research and development institute - (CMRDI) Cairo / Republic of Egypt. 1/12/1994 – 21/04/1995.
12. Main problems in steel casting production. INSTYTUT ODLEWNICTWAW Krakowie. The Republic of Poland. April 1996.
13. Advance AutoCAD 3D at Jordan star system company / Irbid- Jordan. 27/9/1995- 27/12/1995.
14. Operating measuring machine working with SOFTIOS 3D system by the institute of metal cutting. The Republic of Poland. February 1997.
15. Foundry management software DEWTEC. DEWTEC systems limited. March 1999.
16. One month of training on “Foundry Technology” at foundry research institute (FRI)-Republic of Poland.
17. AutoCAD 12, university of Jordan, Amman, Jordan. 11/6/1995-19/7/1995.
18. Excellent in the Art of Selling” at Arab Consultants Company, Jordan. December 1998.
19. Novell 4.1 Administration. Computer and Communications Systems. Jordan. February 1997.
20. Pricing strategies and competition. Jordan institute of management, Amman, Jordan. April 1999.
21. Primavera project planner (P3) for project planning and control" at Jordan University of Science & Technology. Jordan University for Science and Technology. September 1999.
22. Advances in computer-aided materials engineering (Rapid prototyping and remote manufacturing). Trieste. Italy. 9-11 December 2004.
23. Statistical packages for social sciences "SPSS", University of Jordan, September 2008.
24. Knowledge management in modern organizations, University of Jordan, August 2008.
25. Human resource management, University of Jordan, September 2008.

■ **References:**

1. Professor Mohammed Hayajneh, Ph.D Professor of Mechanical and Industrial Engineering/Faculty of Engineering Jordan University of Science and Technology P. O. Box 3030 Irbid 22110, JORDAN Cell: 00962-795-678-692 Fax: 00962-2-720-1074 Att: Prof. Mohammed Hayajneh Email: hayajneh@just.edu.jo	2. Professor Mohammed Almomani Industrial Engineering Department Jordan University of Science and Technology P. O. Box 3030 Irbid 22110, JORDAN Cell: 00962-798-984-977 E-mail : maalmomani7@just.edu.jo
3. Professor Dr. Ammar A. Al-Rousan Professor, Chairman Department of Industrial Engineering Hijjawi Faculty for Engineering Technology Yarmouk University, 21163 Irbid, JORDAN Cell: 00962-777-476-785 Email: alrousana@yu.edu.jo	4. Professor Ali Abu Ghanimeh Architecture Engineering Department School of Engineering The University of Jordan Amman 11942 Jordan Cell: 00962777484010 E-Mail: ghanimeh@ju.edu.jo

