

Profile of Shamsuddin Ahmed

BSc Engg (Hons) (Mechanical/Production, AMU), MSc (Industrial Engineering DU), GIEA, Ph.D. (ECU), GIEA (Australia)

Research Teaching & Consulting	Production/Operations Management, Nonlinear Operations Research, Logistics/Supply Chain Management, Decision Sciences, Financial Engineering, Strategy, Simulation, Six Sigma, Entrepreneurship, Risk Analysis, TQM, Ethics, Systems Engineering, AI Applications. Consulting: Financial Engineering, Investment Analysis, Feasibility Studies, Dynamic Pricing, Revenue Management, Risk Management, Quality Management, Process Analysis, Data Analytics, AI Modeling, SCM, Multivariate Analysis. IUM: Office of the President. Managed the subsidy reduction initiative for the IUM canteen, leading to a restructuring that achieved savings of SAR 41M over a period of 22 months (2022–2023). <i>An initial research grant proposal of SR 8,000,000 by RDIA Saudi Arabia has been accepted (2025) [Now we need a complete proposal].</i>
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Residence Status	Permanent resident of Australia; Citizen: India
Address / KSA/ Australia/ India	Bungalow, Cairns, QLD, Australia Work: IUM, Madinah, KSA India Residence: Entalli, Kolkata, India ASRAY residence, Hooghly.

Education

- Ph.D. Operations Research (Specializations: Applied Operations Research, Soft Computing), Edith Cowan University (ECU), Australia
- MSc Industrial Engineering (Specializations: Logistics and Distribution Planning), Dalhousie University (DU), Canada
- BSc (Hons) Mechanical Engineering (Specializations: Mechanical, Production), Aligarh Muslim University (AMU), India
- Graduate Institute of Engineers Australia (GIEA), Industrial Engineering, Institute of Engineers, Australia

Summary

Accomplished Professor in Industrial Engineering with over 25 years of experience in research, teaching, administration, consulting, industry, and startups. Expertise spans Supply Chain Management (SCM), Total Quality Management (TQM), Business Process Analysis, Ethics, Simulation, Capacity Planning, Demand Assessment, Artificial Neural Networks (ANN), Machine Learning, Data Analytics, IE Software Development, Risk Management, MIS, Database Design, Strategic Management, Applied Statistics, Production, Operations Management, and Project Management.

Provided consulting services to the Office of the President, IUM, for subsidy minimization of value USD \$10,998,710 for 22 months and Restructuring of the Meal Plan for the University Canteen, 2022-2023. Secured multiple interdisciplinary research grants (over USD \$200,000) as Principal Investigator (PI). Published extensively in ISI/Web of Science and Scopus-ranked journals and conferences. Developed software in management engineering, data science, soft computing, financial engineering, asset management, statistical inference, Six Sigma, balanced scorecard strategy, and risk management. Experienced in international accreditations (ABET, AACSB, AMBA, NCAAA, NEASC).

Industry experience includes setting up factories, synchronizing assembly lines, and planning operations in the utilities sector. Founded two startup ventures with the developed market simulation software. One startup is successfully operational.

I am Passionate about interdisciplinary research, software commercialization, and innovative higher education based on Industry 4.0 (4iR). Editorial Board Member, NMIMS Journal, Bombay, and JESC Journal, IUM.

Objective

To apply industrial engineering and data analytics expertise in interdisciplinary research, software commercialization, startups, and Industry 4.0 education, emphasizing profit maximization, risk elimination, and innovation.

Professional Experience (Selected Activities)

- Professor, Industrial Engineering, College of Engineering, Islamic University of Madinah (IUM), Madinah, KSA (Feb 2015 – Present)
 - Developed new curricula for postgraduate and undergraduate Industrial Engineering programs based on industry analysis.
 - Conducted interdisciplinary research in data analytics, machine learning, predictive analytics, risk management, operations management, inferential statistics, Six Sigma, project management, financial engineering, creativity, innovation, and business process analysis.
 - Taught graduate and undergraduate courses, including Project Management, Operations Management, Quality Control, Risk Management, Business Process Analysis, Financial Engineering, Applied Statistics, Database Programming, Ethics, Innovation, Entrepreneurship, Strategic Management, Risk, TQM, RM, Creativity, Systems Engineering, and Simulation Modeling.
 - Implemented practice studios and project-based interactive learning for hands-on problem-solving.
 - Mentored students on research projects, theses, and academic advancement.
 - Editorial Board /Managing Editor (Founded & Formed Journal Policy: with Editor), Journal of Engineering Science and Computing (JESC), IUM (Founding Member, Feb 2018 – Present).
 - IUM, Office of the President. Oversaw the IUM canteen's subsidy reduction effort, which resulted in a restructure that saved SAR 41M over 22 months (2022–2023). (Project/Consulting: Nonfunded).
- Associate Dean of Research, Narsee Monjee Institute of Management Studies (NMIMS), Mumbai, India (2013 – 2015)
 - Developed international research collaborations with North American and European universities.
 - Ranked in AACSB's 'Best B-School Ranking 2013' and Business World #7 overall.
- Professor, NMIMS, Mumbai, India (2013 - 2015)
- Acting Dean, School of Business Management (SBM), NMIMS (2014)
- Visiting Professor, Graduate School of Business, University of the South Pacific (USP), Fiji (2011)
 - Taught MBA courses: Production Operations and Quality Management, Quantitative Methods, Management Information Systems, Project Management (Locations: Suva, Nadi, Labasa, Samoa, Solomon Islands, Kingdom of Tonga).
 - Managed three funded research projects from 2013 to 2014.
 - Prepared self-study documents for AMBA accreditation.
- Acting Head of School, Graduate School of Business, USP, Fiji (2012 – 2013: Periodic: AMBA Accredited).
- Professor, American University of the Middle East, Kuwait, in affiliation with Purdue University, USA.
- Director of Research (Interim & Founding Director of Research), American University of the Middle East, Kuwait, in affiliation with Purdue University, USA. Prepared and presented research compliance reports to the University Council (PUC Kuwait), ministry representatives, and the Ministry of Education, Kuwait. The report supported the acquisition of accreditation in research compliance. Developed research policy documents and TOR.

- Professor, 2005-2009, Bang College of Business; Kazakhstan Institute of Management, Economics and Strategic Research (KIMEP), Almaty, Kazakhstan.
- Director of Research, Kazakhstan Institute of Management, Economics and Strategic Research (KIMEP), Almaty, Kazakhstan.
- Director of DBA Program, Kazakhstan Institute of Management, Economics and Strategic Research (KIMEP), 2007.
- Director of BSc program, Kazakhstan Institute of Management, Economics and Strategic Research (KIMEP), Almaty, Kazakhstan.
- Associate chair, Department of Operations Management and Information Systems, Kazakhstan Institute of Management, Economics and Strategic Research (KIMEP), Almaty.
- Research Associate Professor, School of Engineering and Mathematics; Research, Edith Cowan University, Australia.
- Assistant Professor, UAEU, UAE.
- Assistant Professor (Lecturer) – IIT Bombay, Industrial Management, Bombay.
- Industrial Engineer, Raymond, JK Ltd, India. (Developed production standards, optimized cutting chart, worked in a trade union environment to implement production standards and incentive schemes)
- Industrial Engineer, GEEP Syndicate Ltd, India. (Assembly line balancing, Production standard)
- SCECO Ltd., Operational Planning: Systems Engineer. Design Database for Unit Operations.
- Industrial Engineer (Acting in the role of General Manager), N. R. Jasani, India. (Management requested several times to join a higher-ranked position for further expansion of the industry due to the successful design of the industry.) Designed and commissioned a factory, installed machinery, equipment, jigs, and fixtures, and managed the SCM production facility in a project environment.

Position Offered (Past)

- Deputy Director, Nuclear Power Corporation, India
- Deputy Director, Productivity Council, India
- Faculty Position, RMIT, Melbourne City Campus, Australia.
- University of Wollongong – Australia.
- University of Tabuk, KSA.

Research Grants (All as Principal Investigator)

- Initial Proposal accepted: Invited for Full Proposal: Organization: Research, Development, and Innovation Authority, Saudi Arabia. Estimated Budget: SR 8,000,000. Duration: 48 Months. *Title: Smart and Sustainable Elderly Care in Saudi Arabia: An Integrated Approach.* Synopsis: The research program aims to develop and evaluate integrated, technology-driven models for elderly care in Saudi Arabia, addressing the increasing needs of an aging population.
- Post publication research grant, 2024. Project Title: “Measuring Innovation and Creative Content in Course Content and Learning Effectiveness” USD \$2,134. IUM Research Grant.
- Post publication research grant, 2025. Project Title: “Ethical triage in public health emergency facilities: distributive justice– a decision model” USD \$3,200. IUM Research Grant.
- Under Competition: 2023: Competitive Research Grant (USD \$640,000) Title: Fast and Robust Self-Supervised Learning for Faster Training Time (Derivative Free) Subclassification of Applications of the Algorithm: Dialect language detection and adaptation (especially for semantically complex languages, such as Arabic and Mandarin) 2023 under review.
- Office of the President, IUM. Led subsidy minimization project for IUM canteen, achieving SAR 41M savings over 22 months via restructuring (2022-2023). (Nonfunded: Project/Consulting).

- Capacity management and bed scheduling in accident and emergency facilities in Madinah hospitals region in the event of COVID-19 (USD 88,000) (Grant No. 20/7: Ministry of Education, Kingdom of Saudi Arabia, with the collaboration of Ministry of Industry, Kingdom of Saudi Arabia), IUM, KSA.
- Saudi Arabia's oil export and Saudi Riyal exchange rate: How will the currency behave in the future? (Fund USD \$ 8050, Grant No. 38/B/44.), IUM, Madinah, KSA.
- Development of exchange rate forecasting models for Fiji and Pacific Island Countries (PICs), USD \$41620, USP, Fiji.
- Development of a Methodology to Measure Academic Program Outcomes and Gap Analysis – USD \$ 15,850, USP, Fiji.
- MBA 2011 tracer study, USD \$ 40,000; USP, Fiji.
- Improving project management capabilities of projects in the Pacific: (Participation) A Case Study of the Fiji Islands, USD \$ 38,000; USP, Fiji.
- (Project no. 40-4-11-20/02) Title: Seasonal Peak Electric Load Demand, USD \$6000, UAEU.
- (Project no. 02-03-4-11/03) completed. To Promote Heritage/Eco-tourism with an e-portal, USD \$ 6,500, UAEU.
- (Project no. 04-03-4-11/04), What makes the hospitality industry competitive? USD \$6000, UAEU.
- Supply Chain Logistic Planning with Spatial Routing Scheme: Central Asia, KIMEP, 2006, KIMEP research fund, USD \$1000.
- Healthcare Supply Chain Quality Assessment and Healthcare Facility Design, American University of the Middle East, affiliated with Purdue University, USA. (USD \$7300).
- Soft computing application in classifications with ANN. USD \$3200, UAEU, UAE.
- Simulation in Hospital Management. USD \$3000, UAEU, UAE.
- Peak Electric Load Forecasting, USD \$1500, UAEU, UAE.
- Service Industry Process Planning, USD \$3000, UAEU, UAE.
- Decision Support System and Hospital Simulation, USD \$3000, KIMEP.
- Simulation modeling in the financial market using Neural Network and Multivariate Statistical Analysis: Kazakhstan Market, USD \$6400, KIMEP.

Awards and Honors

- Global Award: Incredible Researcher of the World and Incredible Academician of the World (Record Owner, Science and Tech Category, 2024).
- Best Professor in Operations Management (World Education Congress: International Jury, 2014).
- Service Award, Director of Research, Bang College of Business, KIMEP.
- Listed in Marquis Who's Who in the World (10th Edition, NJ, USA).
- Best Technical Research Paper Nomination (IACIS, USA).
- Letter of Appreciation from the President, KIMEP (Academia-Industry Cooperation).
- Best Research Award I, Bang College of Business, KIMEP.
- Best Research Award II, Bang College of Business, KIMEP.
- Service Award, IABPAD Conference, Orlando, USA.
- Best Paper Category Inclusion, 3rd International Business Research Conference, Melbourne, Australia.
- Best Paper Nomination, ANNIE 2006, St. Louis, USA.
- Appreciation Award, Building Quality Education in CIS Conference, KIMEP.
- Best Paper Award, 5th Annual KIMEP International Research Conference.
- Appreciation Faculty Award, MIS Association, UAEU.
- Nominated for Best Research Faculty Award, UAEU.
- Best Faculty Award (University Levels), K-AU.

- Best Faculty Award (College, University Levels), K-AU.
- Best Faculty Award (Department, Levels), K-AU.
- Best Research Paper Nomination, ANNIE-USA.
- Australian Research Council Award, University of New England, Australia.
- Postgraduate Research Fellowships: RMIT(Australia);
- Postgraduate Research Fellowships: ECU(Australia);
- Postgraduate Research Fellowships: University of Queensland (Australia);
- Postgraduate Research Fellowships: Dalhousie University and Memorial University (Canada);
- Sysorex International Travel Grant (California, USA).
- Studentship Award & Merit Scholarship, AMU.

Consulting Experiences

- i) Office of the President, IUM. Subsidy Minimization of value SAR 41,266,000 for 22 months and Restructure Meal Pan at the University Canteen, 2022-2023.
- ii) Exxon Mobil, Kazakhstan, 2006-2007, in collaboration with KIMEP, Almaty, Kazakhstan. I served as a team leader for the Quality Accreditation Steering Committee.
- iii) Savola Group of Companies: 1997-1998. (A holding company with more than 40 industries). As a consultant, I work on corporate expansion, diversification strategy, and strategic decision support systems. The company had a combined turnover of approximately USD \$1 billion. Additionally, I designed a budgeting system to support business expansion and diversification plans.
- iv) Project Coordinator, Al-Salami Island Consulting Team, UAE, Interdisciplinary Project to develop an eco-friendly theme park, United Arab Emirates University. (2003 – 2004).
- v) Consultant: The University of the South Pacific, Fiji, 2011. Program assessments and curriculum restructure at the Graduate School of Business for AMBA accreditation preparation.

Entrepreneurial activities

- I set up a regional startup business in regional Australia. It is self-sufficient and managed by a professional management team in a regional town in Australia. Founded on feasibility studies examining various entrepreneurial activities in economics of scale, finance, market analysis, tax planning, and risk management, the startup has a turnover of \$140,000.
- Founder: Blue Bay Co. (Developed export processing business for marine products; operated as a supply chain model, suspended due to market conditions).
- Entrepreneurship Simulation Model for Startups: Fully Developed Operational Software - "Spreadsheet Simulation for Real-estate Investment – An aid to an entrepreneur with risk-free asset management to maximize Debt Service Ratio, LVR, ROI, CAP Rate, CoC, and IRR". Using the model for startup operations.
- Enterprise Risk Management Software for Risk Register, Risk Communication, and Management. Developed financial planning software for Entrepreneurship development. Used it for CAPEX with the IUM president for minimizing IUM restaurant subsidies. Developed a software for consulting work, also used for startup pricing models. We used the software model in collaboration with the IUM president for university restaurant subsidy optimization (SAR 41,266,000 savings over 22 months, implemented in 2023).

Accreditation Experience

- 1) Actively involved at the GSB, USP, Fiji, for AMBA accreditation 2012 – 2013.

- 2) Team leader, NEASC accreditation steering committee, curriculum, KIMEP, 2007;
- 3) I submitted a research compliance accreditation report to the Ministry of Kuwait, PUC, Kuwait, for accreditation at the American University in the Middle East, Kuwait, in Affiliation with Purdue University, USA. 2010.
- 4) I prepared a report for the Ministry of Education of Kazakhstan regarding the acquisition of accreditation for the Kazakhstan Institute of Management, Economics, and Strategic Research (KIMEP) in 2008.
- 5) Member, College ABET accreditation steering committee, program assessment, and capstone senior project; K-AU;
- 6) Organized an accreditation workshop for the universities in the region with a team at KIMEP VCs (more than 100 VCs attending the conference). Presented program outcome assessment methods for higher education, 2007.
- 7) I attended a training program and gained experience in accreditation. Program outcome and assessment mapping for AACSB, ABET standards (UAEU, K-AU); Developed research methods and scheme for program outcome and assessment;
- 8) Exposure/experiences in AACSB, ABET, NEASC, and Ministry of Education standards (Kazakhstan, Kuwait, Fiji), prepared 60% of the AMBA & MBA program self-study report;
- 9) I engaged the local industry (Kuwait Petroleum: Six Sigma) in postgraduate (MBA) teaching. Research work completed on decision support systems. I developed teaching materials for the Portal and used them to teach using Moodle, Turnitin, and Blackboard.

Technical Skills

- Programming & Tools: Excel Programming, SQL, Fortran, Simulation Languages (Arena), Educational Program Outcome Mapping, Accreditation Support, Statistical Analysis (Regression, Hypothesis Testing, Design of Experiments), COBOL, Microsoft Project, Data Analytics, Machine Learning Tools.
- Learning Management Systems: Blackboard, Moodle, EvalTools (Synchronous/Asynchronous Pedagogy: Course Creation, Delivery, Management, Assessment).
- Accreditation Expertise: AMBA, AACSB, ABET, NCAAA.

Publications / Research Proposals

Under Review: Journal Articles

- i) *“A triage method with social justice, bio, and medical ethics for critical resources distribution in the event of a pandemic.”* ISI and SCOPUS-ranked Journal (2nd stage revision, Conditional acceptance. Revisions Suggested)
- ii) *“Structural Breaks in Exchange Rate: Case Study Due to Outbreak of COVID-19”*, Under review. ISI, SCOPUS-ranked journal.
- iii) *“Bottleneck and Capacity Analysis of the Holy Rawda during Visit to the Prophet Mosque in Madinah.”* Under review. ISI, SCOPUS-ranked journal, Now Accepted but pending for APC.
- iv) *“Energy-consumption cost-benefit analysis of conventional electricity for lighting public facilities: Energy-consumption cost-benefit analysis of conventional electricity.”* Under review. ISI, SCOPUS-ranked journal.
- v) *Interrelationships between innovation, creativity as QFD, and engagement in learning effectiveness in engineering education”* paper ID: TDCI-2025-0144, International Journal of Design Creativity and Innovation, ISI/SCOPUS J. Revision resubmitted.
- vi) *Impact of Cause and Effect on Project Performance and Mitigation Management.* Under review, International Journal of Construction Management.

Competitive Research Grant (USD \$640,000) Under review

Title: Fast and Robust Self-Supervised Learning for Faster Training Time (Derivative Free)

Subclassification of Applications of the Algorithm: Dialect language detection and adaptation (especially for semantically complex languages, such as Arabic and Mandarin), under review

Title: Enhancing Wellbeing in Madinah: A Comprehensive Development Proposal; A Project Proposal Submitted to the Madinah Region Developmental Authority (MRDA)

Title: Innovate Visitor Experience in Madinah through Data-Driven Tourism Management: A Strategic Initiative; A Project Proposal Submitted to the Madinah Region Developmental Authority (MRDA)

Book Chapters

1. Shamsuddin Ahmed, Contributing author, Chapter, Book Title- Research-Based Professional, "Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications," Indexed In SCOPUS, ISI – WEB OF SCIENCE [USD \$1,450], (Hospital Service Quality) [Pages: 1512], (Publisher: IGI Global; Copyright: © 1st Edition, Language: English, Hardcover: 1512 pages, ISBN-10: 1522522379, ISBN-13: 978-1522522379, ISBN: 9781522522386, Best Sellers Rank: #6,420 in Medical Ethics (Books), 7,520 in Medical Education & Training (Books), #13,432,665 in Books, (USA) [Available from Amazon, Walmart, eBay, Barnes & Noble Booksellers, Inc, 2023, Information Resources Management Association, Reprint, Copyright ©2023, USA.
2. Shamsuddin Ahmed, Contributing author, Chapter, Book Title- Research-Based Professional, "Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications," Indexed In SCOPUS, [Pages: 1512|DOI: 10.4018/978-1-5225-2237-9, ISBN13: 9781522522379|ISBN10: 1522522379|EISBN13: 9781522522386 (Publisher: IGI Global; Copyright: © 1st Edition, Language: English, Hardcover: 1512 pages, ISBN-10: 1522522379, ISBN-13: 978-1522522379), DOI: 10.4018/978-1-5225-2237-9, ISBN: 9781522522386, Best Sellers Rank: #13,432,665 in Books, #6,420 in Medical Ethics (Books), 7,520 in Medical Education & Training (Books), First Print, 2017, (USA).
3. Ahmed, Shamsuddin, Jim, Cross, and S. Bouzerdoum, "A New Exploratory Neural Network Training Method." Editors: C.H. Dagli, A.L. Buckak, D.L. Enke, M.J. Embrechts, O. Ersoy, ASME Press Series on Intelligent Systems, Vol. 16, DOI:10.1115/1.802566, (ISBN 0-7918-0256-6), pp 611-616, New York, USA, 2006.
4. Ahmed, Shamsuddin., "A Near-Optimal Network-Based Vehicle Routing Problem Formulation," Editors: C.H. Dagli, A.L. Buckak, D.L. Enke, M.J. Embrechts, O. Ersoy, ASME Press Series on Intelligent Systems, Vol. 16, (ISBN 0-7918-0256-6), pp 835-840, New York, USA, 2006.
5. Ahmed, Shamsuddin, Jim, Cross, and S. Bouzerdoum, "Strictly self-adaptive XOR training." Editors: C.H. Dagli, A. Buczak, et al., Reference Handbook Series: Intelligent Engineering Systems Through Artificial Neural Networks, Vol. 11, American Society of Mech. Engineers Press, NY, USA, 2001, pp-81-87, ISBN 0-7918-0176-4, 2001.
6. Ahmed, Shamsuddin, and Francis Amagoh. "Heritage Tourism Portal web page design with factor and correlation analysis." 2008, ISBN 987-159904901-4 (hard copy) (Editor Fang Zhao) Publisher: Idea Group Inc., Hershey, PA, USA, 2008.
7. Ahmed, Shamsuddin, "Document control in seaport," Editors: C.H. Dagli, A. Buczak, et al., Reference Handbook Series: Intelligent Engineering Systems Through Artificial Neural Networks, Vol 11, American Society of Mech. Engineers Press, NY, USA, 2001, pp. 1037-1042, ISBN 0-7918-0176-4.

Books Edited

8. Proceedings of the 6th KIRC (KIMEP International Research Conference), (Editors, S. Ahmed, SH Lee, MM Haque), KIMEP, Almaty, Kazakhstan, 2009.

Refereed Journals

9. Ahmed, S. and Alsisi, R.H. (2024), "Ethical triage in public health emergency facilities: distributive justice – a decision model", *Kybernetes*, *Kybernetes*, the International Journal of Cybernetics, systems, and management sciences. UK, Scopus CiteScore 4.6, Clarivate Analytics (ISI: Web of Science) Impact Factor 2.5. ISSN: 0368-492X, eISSN: 0368-492X, Vol. ahead-of-print No. ahead-of-print. [<https://doi.org/10.1108/K-04-2023-0703>] Article publication date: 5 March 2024) [<https://www.emerald.com/insight/content/doi/10.1108/K-04-2023-0703/full/html>].

10. Ahmed Shamsuddin, Paper Reference: 924, Title: Exchange Rate and Structural Break due to Trade Disruptions for COVID-19, Springer, Scopus, Book/reference series/reference series. By Springer and indexed in Scopus.
11. Ahmed Shamsuddin and Rayan H. Alsisi. Paper Reference: 2054., Title: A New Approach to Triage Method with Multi-Ethical Factors Incorporating Quantitative and Qualitative Analysis, Springer, Scopus, Book/reference series by Springer, and indexed in Scopus.
12. Ahmed Shamsuddin, and Rayan H. Alsisi., Paper Reference: 2062, Title: A Novel Bayesian Utilitarian Ethical Triage Decision with Expected Monetary Value in a Pandemic like COVID-19, Springer, Scopus, Book/reference series by Springer and indexed in Scopus.
13. Ahmed Shamsuddin and Rayan H. Alsisi. Paper Reference: 2026., Title: Infectious Diseases such as COVID-19 Modeling with Markov Chains and Disease Transmission Probability, Springer, Scopus, Book/reference series by Springer, and indexed in Scopus.
14. Ahmed Shamsuddin and Ramy Al-Hosiny, Paper Reference: 1327., Title: A Cost-Benefit Analysis Of Energy Usage With Conventional -Electricity In Illuminating Public Facilities Versus Solar Energy In Al-Madinah Municipality: Case study and policy recommendations, Springer, Scopus, Book/reference series by Springer and indexed in Scopus.
15. Shamsuddin Ahmed, Contributing author, Chapter 6, Book Title- Research-Based Professional, "Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications," Indexed In SCOPUS, [USD \$1,450], (Hospital Service Quality) [Pages: 1512], (Publisher: IGI Global; Copyright: © 1st Edition, Language: English, Hardcover: 1512 pages, ISBN-10: 1522522379, ISBN-13: 978-1522522379, ISBN: 9781522522386, Best Sellers Rank: #6,420 in Medical Ethics (Books), 7,520 in Medical Education & Training (Books), #13,432,665 in Books, (USA) [Available from Amazon, Walmart, eBay, Barnes & Noble Booksellers, Inc, 2023, Information Resources Management Association, Reprint, Copyright ©2023, USA.
16. Ahmed Shamsuddin, Paper Reference: 924, Title: Exchange Rate and Structural Break due to trade disruptions for COVID-19, Springer, Scopus, Proceedings, (ICES2023, 2023). The proceedings of ICES2023 will be published by Springer on 15 April 2023 and indexed in Scopus.
17. Ahmed Shamsuddin and Rayan H. Alsisi. Paper Reference: 2054., Title: A New Approach to Triage Method with Multi-Ethical Factors Incorporating Quantitative and Qualitative Analysis, Springer, Scopus, Proceedings, (ICES2023 February 6-8, 2023 Riyadh, Saudi Arabia. ICES2023. (Springer will publish the proceedings of the ICES2023 on 15 April 2023 and index them in Scopus).
18. Ahmed Shamsuddin, and Rayan H. Alsisi., Paper Reference: 2062, Title: A Novel Bayesian Utilitarian Ethical Triage Decision with Expected Monetary Value in a Pandemic like COVID-19, Springer, Scopus, Proceedings, (ICES2023 February 6-8, 2023 Riyadh, Saudi Arabia. ICES2023. (Springer will publish the proceedings of the ICES2023 on 15 April 2023 and index them in Scopus).
19. Ahmed Shamsuddin and Rayan H. Alsisi. Paper Reference: 2026., Title: Infectious Diseases such as COVID-19 Modeling with Markov Chains and Disease Transmission Probability, Springer, Scopus, Proceedings, (The proceedings of the ICES2023 will be published on 15 April 2023 by Springer and indexed in Scopus).
20. Ahmed Shamsuddin and Ramy Al-Hosiny, Paper Reference: 1327., Title: A Cost-Benefit Analysis Of Energy Usage With Conventional -Electricity In Illuminating Public Facilities Versus Solar Energy In Al-Madinah Municipality: Case study and policy recommendations, Springer, Scopus, Proceedings, (The proceedings of the ICES2023 will be published on 15 April 2023 by Springer and indexed in Scopus).
21. Ahmed Shamsuddin, Office of the President, IUM. Subsidy Minimization of value SAR 41,266,000 for 22 months and Restructure Meal Plan at the University Canteen, 2022-2023. Simulation Policy Model. (Nonfunded: Project/Consulting).
22. Ahmed Shamsuddin and Rayan H. Alsisi. Utilitarian Ethical Triage Bayesian Decisions With Monetary Value During COVID-19 - A Bayesian Probability Analysis, International Journal of Service Science, Management, Engineering, and Technology (IJSSMET), Volume 13, Issue 2, Article no. 3, ISSN:1947-959XE-ISSN:1947-9603, (Q2 SJR Ranked Journal) 2022.

23. Ahmed, Shamsuddin. "Measuring Innovation and Creative Content in Course Content and Learning Effectiveness: A Case Study with QFD," *International Journal of Information and Communication Technology Education (IJICTE)* 18, no.1: 1-26. 2022. (Q3 SJR Ranked, ISI ranked, Web of Science Emerging Sources Citation Index (ESCI), Scopus). <http://doi.org/10.4018/IJICTE.295978>.
24. Ahmed Shamsuddin and Rayan H. Alsisi. Utilitarian Ethical Triage Bayesian Decisions With Monetary Value During COVID-19 - A Bayesian Probability Analysis, *International Journal of Service Science, Management, Engineering, and Technology (IJSSMET)*, Volume 13, Issue 2, Article no. 3, ISSN:1947-959XE-ISSN:1947-9603, (Q1 SJR Ranked Journal) 2022.
25. Ahmed, Shamsuddin, Alsisi, Rayan H., "Multi-Factor Triage Algorithm (MUFTA): Quantitative and Qualitative Ethical Factors on Triage Decisions During COVID-19", *Emerging Science Journal*, (SJR Rank (Scimago Journal Rank) Q1; Scopus Rank Q1; The impact score (IS) 2021 of Emerging Science Journal is 5.09), ISSN: 2610-9182, pp. 87-107, 2022.
26. Ahmed Shamsuddin, A hybrid methodology for dental hospital quality performance gap using HOQ and process analysis, (Accepted: *International Journal of Service Science, Management, Engineering, and Technology (IJSSMET)*, ISSN: 1947-959X|EISSN: 1947-9603, USA) Volume 12, Issue 6, Article#2., (Q1 SCOPUS, SJR Ranked.), 2021.
27. Ahmed, Shamsuddin, and Addas, M.F. (2019), "From process flows to benchmark in an accident and emergency hospital with PERT approach," *Kybernetes, the international journal of Cybernetics, systems, and management science*, ISSN: 0368-492X, UK, Vol. 48 No. 3, (Q1 SJR) (IF=2.352), pp. 520-545. <https://doi.org/10.1108/K-02-2018-0088>.
28. Ahmed Shamsuddin, e-waste management in Solomon Islands through awareness program - A project management approach, *International Journal of Information Technology Project Management (IJITPM)*, (ISSN: 1938-0232|EISSN: 1938-0240|EISBN13: 9781522564874), Volume 10, issue. 2, pp. 41-59, 2019. Q3 SJR Ranked, Indexed In ISI, Web of Science Emerging Sources Citation Index (ESCI), SCOPUS, and Compendex.
29. Mohammad G.M. Khan, Ahmed, Shamsuddin., Biman Prasad., "Forecasting exchange rate of Kina against AUD using artificial neural network and time series models," *International Journal of Business Forecasting and Marketing Intelligence*, (ABDC List (C) Australia) Print ISSN: 1744-6635 Online ISSN: 1744-6643, Volume 2, Issue 1, pp. 37-54, USA, 2015.
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145. Ahmed, Shamsuddin, "AMBA Conference for MBA Deans and Directors", Queensland University of Technology, QUT, Brisbane, November 20-23, 2012.

Working Papers

- Ahmed, Shamsuddin, "Simulation of infectious disease transmission model: COVID-19, Markov Chain Model, Seminar Presented at the IUM, FOE, Pilot Study. The simulation software is ready, and the draft paper has been prepared.
- Ahmed, Shamsuddin., MGM Khan, Biman Prasad, Alvin Prasad, "Exchange rate forecast model for Samoa with Neural Network, Draft.
- Ahmed, Shamsuddin., MGM Khan, Biman Prasad, Alvin Prasad, "Time series analysis for Solomon Island exchange rates with major trading currencies, Draft.
- Ahmed, Shamsuddin., MGM Khan, Biman Prasad, Alvin Prasad, "Comparison of USD, AUD, YEN exchange rates with Solomon Island currency and its impact on trade volume," Draft.
- Ahmed Shamsuddin, Anupam Rastogi, C.D. Sreedharan, "Indian Rupee Daily Exchange Rate Forecast with Artificial Neural Networks and Policy Implications." Draft Proposal for Competitive Funding to be submitted to the Indian Institute of Banking and Finance.
- Ahmed Shamsuddin, "Renewable Energy Consumption and Projection of CO2 Emissions in Fiji Islands." Submitted for Journal publication. (Accepted, International Journal of Energy Science (IJES)
- Ahmed Shamsuddin, MGM Khan, Biman Prasad, Alvin Prasad. Forecasting Exchange rate /USD and /AUD: A comparison of AR(1), AR(2), AR(3), AR(4) models. Draft.
- Ahmed Shamsuddin, MGM Khan, Biman Prasad, Avlin Prasad., Time series models for Fiji and major trading currencies
- Ahmed, Shamsuddin, and R. D. Pathak. "The perception of MBA program: implications from MBA tracer study," Draft paper (preparation stage) for submission as a journal and conference paper
- Ahmed, Shamsuddin, and R. D. Pathak. "The USP MBA program outcome and course impact assessment," Draft paper (80% complete & revising), ready for submission as a journal paper
- Ahmed, Shamsuddin, and R. D. Pathak. "Measuring gap between planned program outcome and achieved program outcome", Working paper (in the final stage) for conference proceedings and journal paper
- Ahmed, Shamsuddin, and R. D. Pathak. "Application of AHP in designing POM course in MBA program", working paper, Draft paper in preparation for Journal paper and conference proceedings
- Ahmed, Shamsuddin, "Application of ANN Simplex Training in time series problems," working paper

- Ahmed, Shamsuddin, “Improving Poultry Food Chain Operation by Process Analysis and QFD,” Working Paper
- Ahmed, Shamsuddin, “Hotel Occupancy rate analysis: A Critical Study with factor Analysis with vacancy rate,” Working Paper
- Ahmed, Shamsuddin, “Logistics challenges in a central Asian country and SCM issues,” Supply Chain Coordination and Management
- Ahmed, Shamsuddin, “Convergence in ANN without learning & momentum parameter.” Preparing draft paper for Journal Publication

Conference Papers Planned

- Ahmed Shamsuddin and Dr. Mohammed Aman (University Business Tech Jeddah), Carbon Capture and Factors Correlation Identifications. ICDDTDE2025, hosted by the Jordan University of Science and Technology (JUST). .

Instructional Development

2021: Tax Planning and Real Estate Investment Analysis: Simulator for the Australian Property Market. 2020: Six Sigma Process Control Simulator. 2019: Risk Breakdown Structure, Risk Identification, Risk Quantification, Risk Management with ISO 13000 framework. 2018: Inferential Statistics, Multivariate Regression, and Forecasting analysis. 2020: Financial Engineering Analysis for SCM and Project Management. 2002: Developed Excel-formatted attendance and class management worksheet for class management. 2002: Created MIS course material using Multimedia Technology to demonstrate the Role of MIS in NASA’s Space program (USA). Video streaming Technology and the Multimedia platform are used for the wireless Laptop course. The deputy director of NASA, upon my request at a conference, provided the material for the course. 2003: Developed a Simulation online course with Blackboard. It contains lecture materials and online assessment modules for exams. In addition, active learning includes self-developed streaming video and Simulation exercises. 2002, 2005, and 2008: For POM / SCM / QM, Course materials are integrated with Blackboard/Moodle, including online exam assessment tools. A produced video stream for course material in synchronous mode to present case material on incapacity planning, project management, process analysis, and quality management. 2012-: Work in progress to prepare video stream to produce course material/case studies solutions in services design, TQM, Yield Management, Project Planning, Warehousing, Distribution, Supply Chain Management, and Managerial statistics. (Video recorded at KIMEP). 2014: Excel statistical software for big-data analysis, inferential analysis in graphics mode, Project management risk analysis, AHP decision analysis, Min-max Multivariate statistical analysis, and Management Science Simulation.

Software Authored & Developed (Benchmarked with commercially available software)

- 1) Enterprise Risk Management Simulation software with ISO 31000 and IRM framework. Using for the MSC program to train industry executives. 2024.
- 2) Tax Planning and Real Estate Investment Analysis: Simulator for the Property Market.
- 3) Entrepreneurship Simulation Model for Startups Fully Developed Operational Software: “Spreadsheet Simulation for Real-estate Investment – An aid to an entrepreneur with risk-free asset management to maximize Debt Service Ratio, LVR, ROI, CAP Rate, CoC, and IRR”. (2020: Test and Feasibility Complete June 2020).
- 4) TQM software that adheres to the ISO standard/framework. Using for the MSC program to train industry executives. 2023.
- 5) Six Sigma design for service and production systems, utilizing the MSC program to train industry executives. 2024.

- 6) Ahmed, Shamsuddin. Regression analysis in Excel using classical optimization (Metric minimization - absolute error, mean percentage error, and square error criteria), using a large dataset, USP, Fiji, 2012.
- 7) Ahmed, Shamsuddin. Balanced Scorecard Software developed for Corporate, Department, Unit, and individual levels. USP, Fiji, 2012.
- 8) Ahmed, Shamsuddin. Excel-based time series forecasting software and diagnostic analysis tools. USP, Fiji, 2011.
- 9) Ahmed, Shamsuddin. Excel graphics cost-benefit analysis software tools for decision making. USP, Fiji, 2011.
- 10) Ahmed, Shamsuddin. Single product MRP EXCEL software tools for stock control analysis, USP, Fiji, 2011.
- 11) Ahmed, Shamsuddin. Six Sigma Simulation Software, USP, Fiji, 2011.
- 12) Ahmed, Shamsuddin. Box Whisker Plot and Data Summary Software. USP, Fiji, 2011.
- 13) Ahmed, Shamsuddin. Inventory Planning Model Software, USP, Fiji, 2011.
- 14) Ahmed, Shamsuddin., Multiple break-even analysis software, price structure model, USP, Fiji, 2011.
- 15) Ahmed, Shamsuddin., Bootp re-sampling software, USP, Fiji, 2011.
- 16) Ahmed, Shamsuddin. X-11 decomposition seasonal time series software. USP, Fiji: 2011.
- 17) Ahmed, Shamsuddin. Supply Chain and Distribution Planning Software, USP, Fiji, 2011.
- 18) Ahmed, Shamsuddin. Statistical inferential decision support software with graphic features (Hypothesis test, Confidence interval, Normal probability plot). USP, Fiji, 2011.
- 19) Ahmed, Shamsuddin. Excel Data Analysis Graphics Software (Histogram, Normal Probability Plot, Trend Analysis, Scatter Diagram). USP, Fiji, 2011.
- 20) Ahmed, Shamsuddin, New derivative-free robust neural network training algorithms for business applications, ECU, Australia, 2002; KIMEP 2007.
- 21) Ahmed, Shamsuddin. Trigonometric and Econometric Time Series Forecasting Analysis Software. ECU, Australia (2003); KIMEP, Kazakhstan (2009).
- 22) Ahmed, Shamsuddin. SCM Logistics Planning Software, KIMEP, Almaty, 2005; UAEU, UAE, 2003.
- 23) Ahmed, Shamsuddin. Facilities Planning & Layout Software (High-Level Language and Excel Models), UAEU, 2004.
- 24) Ahmed, Shamsuddin. PERT/CPM Network Simulation Analysis for Managerial Aids. ECU, Australia, 2001; USP, Fiji, 2011.
- 25) Ahmed, Shamsuddin. Factor Analysis and Principal Component Analysis Software for Business Research Applications, UAEU, 2004.
- 26) Ahmed, Shamsuddin, Multivariate regression analysis software (Double Precession Mode), ECU, Australia, 2000.
- 27) Ahmed, Shamsuddin. Ridge regression software (Double Precession Mode). ECU, Australia: 2000.
- 28) Ahmed, Shamsuddin. Neural Network Classification Software for Multivariate Analysis, ECU, Australia, 2001.
- 29) Ahmed, Shamsuddin. Time-series forecasting models, ECU, Australia, 2001.
- 30) Ahmed, Shamsuddin. "Project Monitoring, Simulation, Policy Analysis." Developed pre-processor software for project management policy analysis using SLAM simulation language. (2002), This user-friendly program requires basic information related to a project. The user needs no knowledge of a programming language. The program automatically generates simulation statements in SLAM. The program generates reports for project management policy and scenario analysis. The resource utilization and cost control analysis are included in the report.
- 31) Ahmed, Shamsuddin. Application software - Bootstrapping, Six Sigma tools, Balanced scorecard, Strategy mapping tool, Financial engineering, Cost budgeting, Project management cash flow analysis, Project risk analysis, Distribution analysis, regression analysis in Excel using classical optimization (Metric minimization absolute error, mean percentage error, and square error criteria), Statistical inferential analysis with graphics mode (i.e., hypothesis test, Box whisker plot, NPP, Standardized

Regression analysis, ANOVA, Data mining), Multi-objective project portfolio analysis, Multivariate analysis,

- 32) Ahmed, Shamsuddin. Time series forecasting, Inventory planning, Multiple breaks even analysis, MRP, Neural network software - derivative-free and derivative-based training, MS EXCEL-based Advanced Neural Network software, Ridge regression, Simulation models for process analysis, Factor analysis, Supply Chain distribution planning, Layout planning, Logistics, Capacity planning.

Software skills/programming skills:

Excel, Access, Microsoft Project, Fortran, AweSim, Slam-II, GPSS, COBOL, SQL, CICS, RPG-II, SDF, BMS, EASYTRIEVE+, IBM VSAM files, CICS report writer, PRISM for financial MIS analysis, SPSS, Minitab.

Editorial Work / International Committees / Seminar organization

1. Editorial Board / Managing Editor, JESC, IUM, Madinah.
2. NMIMS Management Review; International Journal of Economics, Finance and Management Sciences (USA);
3. Central Asia Business
4. Sky Journal of Business Administration and Management 2016
5. Journal of Hospitality Management and Tourism; 2018
7. International Journal of Information Technology and Management.
8. International Committees/Review Boards: Scientific Committee, ISEM 2023 (South Africa); CSEI 2023 (Ecuador); WMSCI (Multiple Years, USA); ASME IMECE; DeMset; SAIIE34; ICBM2014 (Taiwan); Others (50+ roles, including session chairs, referees for journals like *Kybernetes*, *Higher Education Journal*).
9. Editorial Board Member, NMIMS, Bombay.
10. Scientific Committee Member: 2nd International Conference on Industrial Engineering, Systems Engineering and Engineering Management (ISEM 2023), Cape Town, Western Cape, Somerset West, South Africa, 2-4 October 2023.
11. Scientific Committee Member. The 5th International Conference on Computer Science, Electronics, and Industrial Engineering (CSEI 2023), Ambato, Ecuador. November. 6-10, 2023.
12. Virtual conference: (Organizing Committee/ Review Board) 24th World Multi-Conference on Systemics, Cybernetics, and Informatics: WMSCI 2020, September 13 - 16, 2020 ~ Orlando, Florida, USA.
13. Virtual conference: (Organizing Committee/ Review Board) The 25th World Multi-Conference on Systemics, Cybernetics, and Informatics: WMSCI 2021 © July 18 - 21, 2021 ~ Virtual Conference, IIS - WMSCI 2021, 13750 West Colonial Dr, Suite 350 – 408, Winter Garden, Florida 34787, USA.
14. Managing Editor: Founding Editorial Board Member, JESC, Journal of Engineering Science and Computing.
15. Editorial Board Member, International Journal of Economics, Finance and Management Sciences, ISSN: 2326-9553 (Print), ISSN: 2326-9561 (Online), Science Publishing Group, USA.
16. Editorial Board Member, (Journal) Management Review NMIMS, ISSN: 0971-1023.
17. Publication Advisor, “We Care” Unfinished Agenda...Unfolding Social Challenges, Anthology Series, NMIMS.
18. Moderator “e-supply chain,” OPTITUDE ’14 in collaboration with the “CSCMP- Council of Supply Chain Management Professionals,” Optimiz, Mumbai Roundtable.
19. Conference Committee, ICBM2014, International Conference on Business and Management, Taipei, Taiwan.
20. Editorial Board Member, Sky Journal of Business Administration and Management (SJBAM) (ISSN 2315-8778).

21. Editorial Board Member, Journal of Hospitality Management and Tourism, ISSN 2141 6575.
22. The 17th World Multi-Conference on Systemics, Cybernetics, and Informatics: WMSCI review committee, Orlando, Florida, USA.
23. ASME 2013 International Mechanical Engineering Congress & Exposition, San Diego, CA.
24. The summer 3rd International Conference on Design and Modeling in Science, Education, and Technology: DeMset 2013 in the context of the 17th World Multi-Conference on Systemics, Cybernetics, and Informatics: WMSCI, Orlando, Florida, USA.
25. The 22nd Multi-conference on Systemics, Cybernetics and Informatics Design and Modeling in Science, Education, and Technology: DeMset, WMSCI 2018, Florida, USA.
26. The 23rd World Multi-Conference on Systemics, Cybernetics, and Informatics: WMSCI 2019, Orlando, Florida, USA.
27. Chair, Leaders Forum: "Balanced scorecard with an emphasis on measurement and strategy mapping," 2012 Leaders Forum, Fiji.
28. Editorial Board Member, The International Journal of Social Sciences, ISSN 2305-4557.
29. Editorial Board Member, International Journal of Information Technology and Management, ISSN no. 2304-0777.
30. 26th International Conference on Computers and Industrial Engineering (special issues), Melbourne, Australia.
31. Special issues of International Transactions in Operations Research (ITOR), USA.
32. Member, Editorial Review Board, Issues in Information Systems, USA.
33. Member, Editorial Review Board, Journal of Computer Information Systems, USA.
34. Review Board, International Conference on Computer, Communication & Control: CCT'03, Florida, USA.
35. Turkish IE/OR Conference in the Mediterranean Region, Organizing Committee, Cyprus.
36. Member: 4th WSEAS International Conference on Soft Computing, Optimization, Simulation & Manufacturing (SOSM 2004), Miami, Florida, USA.
37. Member: 4th WSEAS International Conference on Information Communications & Applications (ISA 2004), Florida, USA.
38. Member: 5th WSEAS International Conference on Applied Mathematics, Florida, USA.
39. Member: The 7th World Multi-Conference System, Cybernetics & Informatics, 2003, Orlando, Florida.
40. The review committee for the International Conference on Management Information Systems, Las Vegas, USA.
41. The review committee for the International Conference on Management Information Systems, Fort Lauderdale, USA.
42. Member: WSEAS Mini-Symposium Computer Application in Biomedicine, Health Care & Medicine, April' 04, Florida, USA.
43. Session Chair, IACIS Conference, USA.
44. The review committee for the World Multi-Conference on Systems, Cybernetics, and Informatics, held in Florida, USA.
45. Member, IACIS Conference, Mexico.
46. Member, ISAME, Udine, Italy, (World Scientific and Engineering Academy and Society).
47. Review Board member: WSEAS Transactions on Systems / ISAME.
48. Review committee, 3rd International Conference on Computing, Communications & Control Tech. CCCT '05, Austin, USA.
49. Review committee, International Association for Computer Information Systems, IACIS Pacific Conference, Taiwan.
50. Review Board, IACIS Conference, New Orleans, USA.
51. Member: Editorial Board, IACIS Conference, Reno, Nevada, October, USA.

52. Review Board, World Multi-Conference on System, Cybernetics & Information, WMSCI 2006, 16 July - 19 July, Orlando, USA.
53. Scientific Committee Member, 7th WSEAS International Conference on Mathematics and Computers in Business and Economics, MCBE'06, Cavtat, Croatia.
54. Scientific Committee Member, WSEAS International Conference, IMCAS'06, Hangzhou, China.
55. Session Chair, Third International Business Research Conference, Melbourne, Australia.
56. Member: Organizing Committee, 6th KIMEP International Conference, Almaty.
57. Review Committee, The 11th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2007 Jointly with the 13th International Conference on Information Systems Analysis and Synthesis: ISAS 2007, Orlando, Florida, USA.
58. Referee, Academy of Management Meeting, August 3-8, Philadelphia, Pennsylvania, American Academy of Business, USA.
59. Session chair: The IABPAD Conference, Orlando, Florida, USA.
60. Member, Editorial Review Board, Journal of Business and Public Affairs (SJI), USA.
61. Member, Editorial Review Board, Journal of Multidisciplinary Research (SJI), USA.
62. Member, Review Board, WMSCI 2009, Florida, USA.
63. Chair 6th KIRC (International Conference), Almaty.
64. Session Chair, KIMEP International Research Conference, Almaty.
65. Member, Review Board, 14th World Multi-Conference on Systemics, Cybernetics, and Informatics: Florida, WMSCI 2010, USA.
66. Member, Review Board, 15th World Multi-Conference on Systemics, Cybernetics, and Informatics (WMSCI 2011), USA.
67. Referee: International Journal of Health Care Quality Assurance, UK.
68. Referee: Higher Education Journal, UK.
69. Referee: The International Journal of Cybernetics, Systems and Management Science, UK.
70. Others...

Workshop/Seminar organizations

1. "Principles of Robust AI: Complex Optimizations and Training Behind ChatGPT," Faculty Development Program, IUM, 25-03-2023.
2. "Research Plan," Faculty Development Program, IUM, 2021.
3. "Innovative Teaching Strategies with Diverse Students" by Prof. Shamsuddin Ahmed, at IUM, Madinah, March 2019.
4. "E-commerce and security, Measuring Intellectual Capital, and Strategic alignment of IT," in collaboration with the Faculty of Business, Economics, and Law, at La Trobe University, Australia, NMIMS, Bombay, March 22, 2014.
5. "Information technology in retail, Usage of augmented reality in retailing, e-commerce trends," in association with the Technische Hochschule Ingolstadt" (THI), Germany, NMIMS, Bombay, February 10, 2014.
6. "Meta-analysis on WTP for socially responsible products, Merging Neuroscience and market response function analysis, and How to critique a research paper," in collaboration with the Stern School of Business, New York University, USA. NMIMS, Bombay, December 24th to 26th, 2013.
7. "Brand Choice Models and Diffusion of Innovation, New Product Development, and Market Entry", NMIMS, Bombay, Dec 16 to Dec 19, 2013.
8. "Research methodology: How to publish research," in association with University of Chester Business School, UK, NMIMS, Bombay, 14th December 2013.
9. "Research Colloquium -Contemporary management research issues," NMIMS, Bombay, January 13th, 2014.

10. "Research workshop proposal with NMIMS" in association with IESEG, France; NMIMS, Bombay, January 16, 2014.
11. "International Business and Negotiations" in association with the Faculty of Social and Behavioral Sciences, Flinders University, Australia, NMIMS, Bombay, 27 March 2014, NMIMS, Bombay.
12. Proposed and planned 28 to 30 July 2014. Organised with vice chancellor Prof. Dr. Rajan Saxena, NMIMS: "Faculty development workshop – Teaching, Research, Governance" In collaboration with the University of Illinois, Urbana-Champaign, USA. NMIMS, Bombay.

Institutional Development Activities

1. Member, Research, Development, and SDP Committee, IUM.
2. Member, Graduate Studies Committee, IUM.
3. Member, Graduate Scholarship Committee, IUM.
4. Member, Curriculum Development Committee, IUM.
5. Chair, Strategic Planning Committee, IUM.
6. Member, Industrial Advisory Committee, IUM.
7. Member of the Promotion and Awards Committee, IUM.
8. Member of the Safety and Health Committee, IUM.
9. Member of the Strategic Planning Committee, IUM.
10. Member, Doctoral Research Committee, NMIMS.
11. Member, Graduate School of Business Quality Audit Committee, USP.
12. Member, Graduate School of Business, Research Committee, USP.
13. Member, Graduate School of Business Admission Committee, USP.
14. Member, Graduate School of Business Program assessment, External Review, self-study, USP.
15. Member, Graduate School of Business Curriculum Committee, USP.
16. Member, Graduate School of Business Accreditation Committee, USP.
17. Member, Graduate School of Business DBA Committee, USP.
18. Member, Graduate School of Business Staff Selection Committee, USP.
19. Member, Graduate School of Business AMBA, MBA program self-study committee, USP.
20. Member, Research Committee, AUM.
21. Chair, Research Committee: Functions - Research plan, strategy, Budget, Grant management, AUM.
22. Member of the Standard and Compliance Committee, AUM.
23. Council Member: Doctoral Business Administration (DBA) Program & Development, KIMEP.
24. Member: Accreditation Steering Committee (NEASC and AACSB Accreditation Standards, KIMEP.
25. Group Leader & Chair (NEASC and AACSB Accreditation Standards for Curriculum, Research, and Faculty Standard), KIMEP.
26. Founding Editor: Journal "Central Asian Business" (Refereed Journal); Managed by KIMEP.
27. Member: Industrial Advisory Board (IAB), KIMEP (Founded and composed the IAB to integrate the curriculum at the OMIS & BCB).
28. International Collaboration and Joint Venture: Initiative, KIMEP.
29. KIMEP International Conference Committee: Organize the KIMEP International Conference.
30. Member, Faculty Promotion/Tenure Committee: University Level, KIMEP.
31. Member: OMIS Business Advisory Committee, KIMEP.
32. Member, Faculty Curriculum Committee.
33. Member, College Disciplinary Committee, Research Committee.
34. Member, OMIS, Faculty Research/Tenure Promotion Committee, KIMEP.
35. Member, Chair, University Ad Hoc Grievance Committee, KIMEP.
36. Member, Department Faculty Search Committee.
37. Member, Bang College of Business (BCB), Strategic Planning Committee.
38. Member, Bang College of Business, OMIS, Academic Council Committee.
39. Member, Bang College of Business, Chair, Research Committee, KIMEP.
40. Member, Chair, Bang College of Business, OMIS, Research Committee, KIMEP.
41. Member, Chair, Bang College of Business, BSC Program Committee, KIMEP.

42. Member, Bang College of Business, Business Advisory Council, KIMEP.
43. Member, KIMEP Grievance & Conflict Resolution Committee, KIMEP.
44. Member, BCB, Executive MBA Program Committee, KIMEP.
45. Member, BCB, Curriculum Development, Academic Standard, Integrity Committee, KIMEP.
46. Member, BCB, College Council, KIMEP.
47. Member of the BCB Tourism specializing and curriculum development committee, and liaison with Swiss universities in developing BSc & MBA Tourism programs at KIMEP.
48. Compensation structure and grievance Ad-Hoc committee, Recognition: Received appreciation letters from (a) the President's office, (b) the Executive Vice President, and (c) the Vice President of Academic Affairs.
49. College Faculty Search & Recruitment Committee, KIMEP.
50. College AACSB Accreditation Planning Committee, KIMEP.
51. University Tenure and Promotion Committee, KIMEP.
52. Curriculum, Academic Standard, Integrity Committee, KIMEP.
53. Coordinator: Kazakhstan's Accession to WTO Taskforce - Develop an action plan with KIMEP and the Ministry to organize a conference, roundtable, training, and joint research proposals, as well as develop library resources.
54. Chair of the Research Services Committee, College Level, KIMEP.
55. Executive MBA program committee, KIMEP.
56. Council Member Doctoral Program (DBA) in Business Management, KIMEP.
57. College strategic planning committee, KIMEP.
58. College AACSB Accreditation Task Force, KIMEP.
59. ABET accreditation college committee member: contributed to developing guidelines for the capstone project, course outcome assessment criteria, and work plan; K-AU.
60. English Language Center program development for Engineering students to develop skills in report writing, speaking, and communicating, K-AU.
61. IE Scientific seminar coordinator and industry collaboration; K-AU.
62. Department Scientific and Research Committee: Coordinates scientific and research activities. Develop policies related to resource management at the UAEU.
63. College Faculty Development Committee: Develop programs and plans to train faculty in laptop computing and active learning activities; UAEU.
64. Department program outcome assessment committee: Develop programs and plans for course outcome assessment tools and improve course curriculum; UAEU.
65. Internship coordination with the industry, UAEU.

Teaching Philosophy and Methods

Student-centered, industry-focused learning in multicultural settings. Emphasize project-based, case, and problem-solving instruction, as well as FTF synchronous and distance learning via electronic portals. Integrate industry professionals in lectures/projects. Bottom-up approach: identify student needs/capabilities and link theory to industry. Develop video case studies and regional projects. Utilize quick assessments, feedback, and industry trips to facilitate active learning.

Learning Management Systems (Synchronous and Asynchronous Pedagogy)

Course creation, Content Delivery, Content Management, Course Assessment

- 1) Blackboard
 - 2) Moodle
 - 3) EvalTools
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Ongoing Research Areas and Plans

- Working on Bioethics and Medical Ethics, to integrate with religious ethics for a diverse society. Focus on ethical calculus, utilitarian ethics, and deontological ethics.
- The current focus is on collaborative research in applied Operations Research, Nonlinear Optimization, and the application of soft computing in AI.
- Developing/testing software in Quality Management, Process Planning/Management, Operations Strategy, Statistical Computing, SCM/Logistics.
- Integrating computational business intelligence with data mining, Six Sigma, forecasting, benchmarking, MIS, healthcare, process analysis, and ethics.
- Executive courses testing software in DSS, Risk Management (RMI/ISO 31000), Multivariate Statistics, Balanced Scorecard, Multi-Criteria Project Evaluation, Industrial/Business Strategy Simulation.
- Working on a project to integrate computational business intelligence with data mining, Six Sigma, forecasting, benchmarking, MIS, healthcare management, process analysis, and ethics.
- Testing self-developed software in Decision support systems, Risk Management (As per RMI and ISO 31000). The objective is to offer executive-level courses. Developed and tested in a business environment, the Multivariate Statistics, Measurement model using the balanced scorecard, Multi-criteria Project evaluation, and simulation of industrial and business strategies for application in organizations where executives work for validation purposes.
- Collaborative research in Applied Operations Research, Nonlinear Optimization, AI/Soft Computing Applications.
- Developing a Model for Carbon Capture in Industrial Production and Other Correlated Factors.
- Working on project: Infectious Disease Models (COVID-19 Markov Chain);
- Constructing a model on Exchange Rate Forecasts with structural breaks
- Return on Investment on MBA Program (USP) and Social Impact Perceptions.
- Working on systems engineering and systems specifications on the crowd management model for the Grand Mosques in KSA.
- Causes of Delay in Construction Management for the Expansion of a Hotel in the Medina Regions.
- Identify the hurdles to expanding SMEs in developing countries in the MENA region.

Scientific Index

- 1) AD Scientific Index ID: 409562: <https://www.adscientificindex.com/scientist/s-ahmedshamsuddin-ahmed-bsmehons-msie-canada-phd-australia/409562>
- 2) https://scholar.google.com/citations?user=6u_hfLIAAAAJ
- 3) <https://www.scopus.com/authid/detail.uri?authorId=57222469897>
- 4) https://www.recordowner.com/detail.php?record_id=Mzc1
- 5) <https://au.linkedin.com/in/prof-s-ahmed-phd-4383aab2/en>

Profile Summary

Accomplished Professor of Industrial Engineering with over 25 years of global experience in academia, research, industry, consulting, and entrepreneurship. Expertise spans interdisciplinary domains including Supply Chain Management (SCM), Total Quality Management (TQM), Operations Management,

Nonlinear Operations Research, Logistics, Decision Sciences, Financial Engineering, Simulation Modeling, Six Sigma, Risk Management, Artificial Neural Networks (ANN), Machine Learning, Data Analytics, Process Analysis, Ethics, Systems Engineering, and AI Applications. Proven track record in securing over USD \$200,000 in interdisciplinary research grants as Principal Investigator (PI), including high-impact projects on COVID-19 capacity management (USD \$88,000), exchange rate forecasting, and sustainable energy analysis. At the Office of the President, IUM managed the subsidy reduction initiative for the IUM canteen, leading to a restructuring that achieved savings of SAR 41M over a period of 22 months (2022–2023).

Published extensively with more than 50 refereed journal articles in top-tier ISI/Web of Science and Scopus-ranked outlets (e.g., *Kybernetes*, *International Journal of Project Management*, *Technological Forecasting and Social Change*), achieving Q1 rankings and impact factors. Contributed book chapters, edited proceedings, and presented at over 70 international conferences, earning accolades such as Incredible Researcher of the World (2024), Best Professor in Operations Management (2014), multiple Best Research Paper Awards, and listings in Marquis Who's Who in the World. Developed and commercialized innovative software tools benchmarked against industry standards, including Enterprise Risk Management (ISO 31000-compliant), Real Estate Investment Simulators, Six Sigma Process Controls, Balanced Scorecard Systems, and ANN-based forecasting models, applied in executive training and startup operations.

Leveraged hands-on industry experience—designing factories, balancing assembly lines, optimizing production standards, and managing SCM in manufacturing (e.g., Raymond JK Ltd., GEEP Syndicate) and utilities (SCECO Ltd.)—to publish Q1-ranked articles and deliver consulting projects yielding multimillion-dollar impacts. Led subsidy optimization for IUM's university canteen, saving SAR 41 million over 22 months through dynamic pricing and restructuring (2022-2023). Provided strategic consulting to Exxon Mobil and Savola Group (USD \$1B turnover), and supported eco-tourism initiatives. Founded two startups: an operational regional Australian venture with a \$140,000 annual turnover, and Blue Bay Co. for marine product exports.

Pioneered curriculum development for undergraduate and postgraduate Industrial Engineering programs aligned with Industry 4.0, incorporating project-based learning, practice studios, and interactive tools, and taught diverse courses (e.g., Project Management, Quality Control, Financial Engineering, Applied Statistics) across institutions in Australia, Canada, KSA, India, Fiji, Kuwait, Kazakhstan, UAE, and Cyprus. Mentored theses, fostered industry collaborations, and contributed to international accreditations (ABET, AACSB, AMBA, NCAAA, NEASC), including self-study reports and compliance audits. Served on editorial boards for journals like *NMIMS Management Review*, *Central Asia Business*, and *Sky Journal of Business Administration*; organized workshops on AI, research methodology, and innovation; and held leadership roles such as Associate Dean of Research (NMIMS), Director of Research (KIMEP, AUM), and Acting Dean (SBM, NMIMS).

Passionate about bridging theory and practice in multicultural settings, I integrate real-world insights, ethical frameworks, and cutting-edge tools to empower students and drive organizational excellence. Committed to advancing sustainable, innovative solutions in industrial engineering, with ongoing research in bioethics, crowd management for holy sites, carbon capture, and AI-driven dialect detection. Google Scholar citations and Scopus Author ID reflect sustained scholarly influence, positioning me as a dynamic leader ready to elevate academic and industry partnerships.