

CURRICULUM VITAE

Nasr Al-Hinai

Contents

1. Personal Information	3
2. Education and Employment.....	3
2.1. Education	3
2.2. Career History	3
3. University Teaching and Learning	4
3.1. Taught Courses.....	4
3.2. Advising and Supervision	4
3.2.1. Advising.....	4
3.2.2. Supervision of Final Year Projects	4
3.3. Curriculum Development.....	5
3.3.1. Course reforms.....	5
3.3.2. Course development.....	5
3.3.3. Lab development	5
3.4. Curriculum Review and Accreditation	6
3.5. Personal Development in Teaching	7
3.6. Recognition in Teaching.....	8
4. Scholarly Achievements	10
4.1. Research Interests.....	10
4.2. Scholastic International Listings.....	10
4.2.1. Scopus	10
4.2.2. Google Scholar	10
4.2.3. Researchgate.....	10
4.3. Funded Research Projects and Consultancies	11
4.3.1. Funded Research Projects.....	11
4.3.2. Consultancy.....	12
4.4. Publications.....	12
4.4.1. Published Refereed Journal Papers	12
4.4.2. Book and Book Chapter	14
4.4.3. Selected Conference Proceedings and Presentations	14
4.4.4. Technical Reports.....	16
4.4.5. Patents	17
4.5. Postgraduate Student Supervision	17

4.5.1.	Master Theses Titles	17
4.5.2.	PhD Theses Titles	18
4.6.	Professional Memberships.....	18
4.7.	Organizing, Chairing Conference Technical Sessions and Professional Services	18
4.8.	National and International Recognition in Scholarship	19
5.	Administrative Roles and Community Services	21
5.1.	University Services	21
5.1.1.	Administrative Position	21
5.1.2.	Department Committees	21
5.1.3.	College Committees	22
5.1.4.	University Committees.....	22
5.1.5.	Events Organization at SQU	22
5.1.6.	SQU Representation and Presentations	23
5.1.7.	Collaboration Programs	23
5.2.	Community Service	23
5.2.1.	Technical, National and Professional Services	23
5.2.2.	Social Services	24
5.2.3.	Prepared and Conducted Short Courses and Workshops.....	24
5.3.	Personal Development in Services.....	25
5.4.	Recognition in Services	25

1. PERSONAL INFORMATION

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Email: nhinai@squ.edu.om,

2. EDUCATION AND EMPLOYMENT

2.1. Education

<i>PhD. Industrial Engineering (Production Planning and Control)</i>	2011
<i>University of Manitoba, Winnipeg, MB, Canada</i>	
<i>Thesis: "Optimizing The Flexible Job-Shop Scheduling Problem Using Hybridized Genetic Algorithms"</i>	
<i>M.Sc. In Advanced Manufacturing Technology and Systems Management</i>	2003
<i>UMIST, Manchester, UK</i>	
<i>Thesis: "The Effect of Manufacturing Porosity on Thermal Transport Properties of Ceramic Matrix Composites"</i>	
<i>B.Eng. Mechanical Engineering</i>	2001
<i>Sultan Qaboos University, Muscat, Oman.</i>	
<i>FYP: "Defining The Elastic/Plastic Envelop Of Casings Running Through Medium To High Curvature Wellbores"</i>	

2.2. Career History¹

<i>HoD, Department of Mechanical and Industrial Engineering, Sultan Qaboos University</i>	<i>Aug. 2021-present</i>
<i>Associate Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University</i>	<i>June 2021-present</i>
<i>Assistant HoD, Department of Mechanical and Industrial Engineering, Sultan Qaboos University</i>	<i>Sept. 2020-July 2021</i>
<i>Assistant Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University</i>	<i>Sept. 2011-May 2021</i>
<i>Lecturer, Department of Mechanical and Industrial Engineering, Sultan Qaboos University</i>	<i>Oct. 2003-Sept. 2011</i>
<i>Demonstrator, Department of Mechanical and Industrial Engineering, Sultan Qaboos University</i>	<i>2001-2003</i>

¹ More details about admin responsibilities are given in Section 5, page 21.

To streamline the CV, Section 3 focuses on key achievements in teaching and learning, Section 4 highlights significant research accomplishments, and Section 5 showcases major administrative roles.

3. UNIVERSITY TEACHING AND LEARNING

3.1. Taught Courses

In my extensive 20+ years as an educator, I have not only taught but also coordinated approximately seventeen engineering courses catering to both undergraduate and postgraduate students. The primary courses include:

- Basic Mechanics
- Product Design and Development
- Probabilities and Statistics for Engineers
- Production Planning & Control
- Production Planning & Inventory Management
- Facilities Design and Logistics
- Management for Engineers
- Project Management
- Project Engineering and Management

3.2. Advising and Supervision

3.2.1. Advising

Since 2011, I have been the primary academic advisor for Industrial Engineering (IE) undergraduate students, guiding different cohorts with an average of 25 students per year. In this role, I provide essential advice and support to students, assisting them in overcoming challenges throughout their academic journey.

3.2.2. Supervision of Final Year Projects

Guiding senior design projects, commonly known as Final Year Projects, is integral for students to apply theoretical concepts in practical settings. I have successfully supervised projects encompassing various domains, including operations management, the application of lean and six sigma principles, project management, and product design. Selected project titles include:

- Optimizing students' public transportation system within Sultan Qaboos University.
- Designing An Inventory Control System for The Medical Equipment Spare Parts at Khoula hospital.
- Application of Lean Methods to Improve the Health Care Services and Patients Flow at Sultan Qaboos University Hospital (SQUH).
- Job-Shop Scheduling for Skill-Dependent Make-To-Order System Using a Meta-Heuristic Approach.
- Designing an Ergonomic Student Classroom Chair: "Comfy-Chair".

- Improving productivity of Oman National Livestock Development Company Through Waste Elimination.
- Analyzing and Improving of the Baggage Handling System at Muscat International Airport.
- Improving the Healthcare Services and Staff Flow at the Neonatal Intensive Care Unit in Royal Hospital.
- Designing an Automated Scheduling Emergency Room Nurses at SQUH.
- Coffee Shop Engineering: An Industrial Engineering Perspective.
- Development of Framework for the Core Soft Skills and Competencies Required by Project Managers in Oil and Gas Industry.
- Developing an Automated Crew Scheduling System for SalamAir.
- The Healthcare-Planning Problem with Treatment Team (Physician/Nurse) Consistency.
- Investigating the challenges and factors influencing Project Success during the Covid-19 pandemic in Oman.
- A Framework for the Data-Driven Decision-Making Process for Cost Analysis of an IoT (Internet of Things) Monitoring Platform in Warehouses.

3.3. Curriculum Development

3.3.1. Course reforms

I have restructured numerous courses by updating textbooks, enriching content with advanced materials relevant to local industries, meticulously redesigning projects to align with community needs, implementing enhanced project evaluation criteria, creating comprehensive lecture notes, and refining course outlines. Examples of these courses include:

- Basic Mechanics
- Product Design and Development
- Production Planning & Control
- Facilities Design and Logistics
- Project Management
- Project Engineering and Management

3.3.2. Course development

In addition, I have developed the following course:

- Product Design and Manufacturing
- MEIE4233: Production Planning and Inventory Management

3.3.3. Lab development

- Introduced using patents databases for the course product design courses by delivering a short workshop to the course students about patent search.
- Introduced using MS Project software for the courses for project management courses.

3.4. Curriculum Review and Accreditation

I have played a pivotal role in quality assurance services for Engineering Programs within the Department and on a national level. My contributions include:

- Active member of the Department Curriculum and Accreditation Committee since September 2012.
- Chair of the Continuous Assessment and Evaluation Committee for the Industrial Engineering Program from 2015 to 2018.
- Active member in the Department Continuous Assessment and Evaluation Committee for the Industrial Engineering Program from September 2012 to August 2015 and from September 2018 to present.
- Served as the ABET Industrial Engineering Program Coordinator from September 2014 till September 2017.
- Contributed in the preparation and the review of the Self-Study Report while preparing for ABET accreditation that was awarded in 2014.
- Heavily involved in the Industrial Engineering Program ABET accreditation Cycle that was awarded in 2014.
- Organizer of the department's workshop to review the ABET accreditation progress on April 1, 2017.
- Organizer of the department's workshop to review the ABET accreditation progress on February 23, 2019.
- Key contributor and leader of the first cycle while preparing for the Industrial Engineering Program ABET accreditation visit in November 2019.
- Major contributor in the preparation and the review process of the Self-Study Report while preparing for ABET accreditation cycle that was awarded in July 2020.
- Actively participated in the preparation of the Industrial Engineering undergraduate degree plan for the cohorts 2011 and 2012.
- Initiated and prepared the Industrial Engineering undergraduate degree plan for the cohorts 2013 and onwards in response to the market needs, feedback from program constituents and ABET recommendations.
- Prepared the MSc and PhD Industrial Engineering graduate degree plans for the cohorts 2018 and onward.
- Heavily involved in the preparation process of the College of Engineering for the SQU-OAAA's (Oman Academic Accreditation Authority) Program Accreditation Manual (2014-2017).
- Reviewer: Ministry of Higher Education, Oman, Review and Evaluation of Master of Engineering (MEng) in Industrial Production and Manufacturing, 2017-2018.
- Chaired the committee responsible for and prepared the modernized Industrial Engineering undergraduate degree plan for the cohorts 2020 and onwards to adapt to the local and global trends and challenges. Besides that, I met the feedback from the program constituents and aligned the new degree plan to the College and ABET requirements.

- Reviewer: Ministry of Higher Education – Department of Programs Supervision, Oman, Review and Evaluation of BEng Industrial and Systems Engineering academic program for licensing, 2022.
- Chaired the committee responsible for and prepared the modernized Industrial and Mechanical Engineering undergraduate degree plans for the cohorts 2023 and onwards to adapt to the local and global trends and challenges. Besides that, I met the feedback from the program constituents and aligned the new degree plan to the College and ABET requirements.
- Chairing the committee responsible for and prepared the modernized Industrial Engineering postgraduate degree plans to adapt to the local and global trends and challenges initiated in 2022.

3.5. Personal Development in Teaching

For personal development in teaching, I have actively participated in various workshops focused on engineering education and program accreditation. Some of these include:

- Two-day workshop on ABET assessment, Sultan Qaboos University, March, 2012.
- One-day workshop on how to use “Projects in Wikis” by Andrea Hall, CET at Sultan Qaboos University, Nov. 2012.
- One-day workshop on “What’s Good about Technology in Teaching”, Sultan Qaboos University, Sept. 2013.
- Three-day short course about “Fundamentals of Project Management” organized by Spearhead Training, Abu Dhabi, UAE, 6-8 Oct. 2013
- Two-day workshop on “Fundamentals of Program Assessment” conducted by Rochelle L. Williams, PhD, Dubai International Convention and Exhibition Centre, Dubai World Trade Center, UAE, December 5-6, 2014.
- Workshops and keynote presentations at the 2014 World Engineering Education Forum (WEEF2014), under the theme “Engineering Education for a Global Community”, Dubai International Convention and Exhibition Centre, Dubai World Trade Center, UAE, December 3-6, 2014. The attended workshops keynote speeches included:
 - CDIO (Conceive, Design, Implement and Operate).
 - Developing PBL (Problem Based Learning)-Inspired Teaching Experiments.
 - Globalization and Engineering Education.
 - Preparing Graduates for a Global Engineering Workforce.
- Three-day workshop on “Preparing Engineers for Globalized Economy: How to Teach Engineering Students Process Skills” held at Sultan Qaboos University, conducted by Prof. Nikos Mourtous, Professor and Director of Aerospace Engineering, San José State University, May 26-28, 2015.
- Three-day workshop on “Introduction to CDIO Initiative: Rethinking Engineering Education” held at Sultan Qaboos University, conducted by Dr. Juha Kontio, Faculty of Business, ICT and Chemical Engineering, Turku University of Applied Sciences, May 17-19, 2016.

- One-day workshop on “Critical Thinking” held at Sultan Qaboos University, conducted by Prof. Nikos Mourtous, Professor and Director of Aerospace Engineering, San José State University, May 17, 2017.
- One-day workshop “Alternative Teaching Methods” held at Sultan Qaboos University, conducted by Prof. Nikos Mourtous, Professor and Director of Aerospace Engineering, San José State University, May 18, 2017.
- One-day panel session titled “Engaging students online: Challenges and best practices”, Panelists: Dr. Amur AlYahmedi and Dr. Ramanathan Arunachalam, College of Engineering, Sultan Qaboos University, July 12, 2020.
- Moderator of panel session titled “e-Assessment: Challenges and best practices”, Panelists: Prof. Tasneem Pervez and Dr. Edris Hassan, College of Engineering, Sultan Qaboos University, July 21, 2020.

3.6. Recognition in Teaching

My dedicated efforts in teaching and learning over the years have resulted in both my students and myself receiving numerous local, national, and international awards and recognitions such as:

1. “Letter of Appreciation” from HE Vice-Chancellor of SQU for participating in the academic accreditation process leading to ABET accreditation in August 2014.
2. Supervisor of students: Amira Al-Kharusi, Muzna Al-Rahbi, Siham Al-Hashmi – won the **3rd Place** for the FYP design competition held at Mechanical and Industrial Engineering Department. Title of the project: “Job-shop scheduling for skill-dependent Make-to-order system using a meta-heuristic approach”, June 2014.
3. Received the **“Distinguished Teacher Award”**, College of Engineering, Sultan Qaboos University, received during the University day celebration on May 2nd, 2016.
4. Supervisor of students: Noor Al-Yazidy, Anfal Al-Hooti, Ekhlal Al-Shereiqi – won the **1st Place** for the FYP design competition at Mechanical and Industrial Engineering Department. Title of the project: “Designing an Automated Scheduling Emergency Room Nurses at SQUH”, May 2017.
5. Supervisor of students: Jaber Al-Jabri, Mazin Al-Abri, Majid Al-Oufi – won the **2nd Place** of the Senior Design Poster Competition. Title of the project: “Coffee Shop Engineering: An Industrial Engineering Perspective”, Received during the 8th IEOM Conference, Bandung, Indonesia, March 7, 2018.
6. Received the **“Teaching Excellence Award”** for exceptional teaching contributions to the field of industrial engineering and operations management. Received during the 8th IEOM Conference, Bandung, Indonesia, March 7, 2018.
7. Reward from Ministry of Higher Education, Oman, for reviewing and evaluating the Master of Engineering (MEng) in Industrial Production and Manufacturing, 2018.
8. Supervisor of students: Jaber Al-Jabri, Mazin Al-Abri, Majid Al-Oufi – won the **1st Place** for the FYP design competition at Mechanical and Industrial Engineering Department. Title of the project: “Coffee Shop Engineering: An Industrial Engineering Perspective”, May 2018.
9. Supervisor of students: Esra’ Abusharkh, Asila Al-Shamli – won the **2nd Place** of the 2019 IEOM Senior Design Project Competition. Title of the project: “Development of Framework for the Core Soft Skills and Competencies Required by Project Managers in

Oil and Gas Industry”, Received during the 9th International Conference on Industrial Engineering and Operations Management at JW Marriott, Bangkok, Thailand during March 5-7, 2019.

10. A certificate of Appreciation from SQU for winning an international award in Teaching Excellence, 2 May 2019.
11. Received the **“Amity Excellence Award for Best Faculty in the area of Project Management”** for exemplary contribution in teaching and contributions in the field of project management. Received during the 20th International Business Horizon World Summit, Nordia, India, February 19, 2020.
12. Supervisor of students: Nasser Al-Wahaibi, Abdulaziz Al-Mamari, Qabas Al-Rawas – won the **3rd Place** of the 2021 IEOM Senior Design Project Competition. Title of the project: “The Healthcare-Planning Problem with Treatment Team (Physician/Nurse) Consistency”, Received during the 11th International Conference on Industrial Engineering and Operations Management at Singapore during March 7-11, 2021.
13. A certificate of Appreciation from SQU for winning an international award in Teaching Excellence, 2 May 2021.
14. Supervisor of students: Afnan Al-Saddi, and Laila Al-Jahwari – winners of the **3rd Place** of the 2022 IEOM Senior Design Project Competition. Title of the project: “Investigating the Challenges and Factors Influencing Project Success During the Covid-19 Pandemic in Oman”, Received during the 12th Annual International Conference on Industrial Engineering and Operations Management that was held in Istanbul, Turkey, March 7-10, 2022.
15. Supervisor of students: Razan Al Khambashi, Fatma Al Jadidi, Sharifa Al Riyami, Wasan Al Siyabi – won the **2nd Place** for the FYP design competition at Mechanical and Industrial Engineering Department. Title of the project: “A Framework for the Data-Driven Decision-Making Process for Cost Analysis of an IoT (Internet of Things) Monitoring Platform in Warehouses”, May 2023.

4. SCHOLARLY ACHIEVEMENTS

4.1. Research Interests

My research focus lies in the extensive field of Industrial Engineering Applications, with particular interests in scheduling, production planning and control, operations and inventory management, product development and design, Lean Six Sigma, project management, and manufacturing. The depth of my commitment to these areas is evident in my research records and projects, as outlined in the following subsections.

4.2. Scholastic International Listings

4.2.1. Scopus

Documents:	36
Citations:	521
h-index:	9
Co-authors:	37

Scopus Author Details:

<https://www.scopus.com/authid/detail.uri?authorId=24340502600>

4.2.2. Google Scholar

	All	Since 2019
Citations:	875	612
h-index:	12	12
I10-index:	15	15

Google Scholar Author Details:

<https://scholar.google.com/citations?user=0SuSw3sAAAAJ&hl=en>

4.2.3. Researchgate

Citations:	650
Research items:	61
Research Interest Score:	668.6
Reads:	107,445
h-index:	11

Researchgate Author Details:

https://www.researchgate.net/profile/Nasr_Al-Hinai

4.3. Funded Research Projects and Consultancies

4.3.1. Funded Research Projects

	Research Title	Research Team (* PI, ** Co-PI)	Budget (RO)	Funded By ⁺	Year
1	Solving the Periodic Petrol Station Replenishment Problem Using Heuristics and Metaheuristic Approaches Code: IG/ENG/MIED/14/04	Nasr Al-Hinai*, Chefi Triki**	6,577	SQU-IG	2014-2015
2	Mediator Based Order Acceptance Decision System for Make-to-Order Company: Code: IG/ ENG/ MIED/14/05	Sujan Piya*, Nasr Al-Hinai**	4,491	SQU-IG	2014-2015
3	A Study To Improve Productivity of Oman National Livestock Development (ONLD) Company	Nasr Al-Hinai* , Sujan Piya**, Mahmood Al-Kindi	3,500	ONLD	2014-2015
4	Measurement of product modularity degree to scale up family of product for achieving competitive advantage: perspectives from selected Omani Small and Medium Enterprises Code: IG/ ENG/ MIED/16/03	Ahm Shamsuzzoha*, Mahmood Al-Kindi**, Nasr Al-Hinai	6,675	SQU-IG	2016-2017
5	Development of Eco-Sustainable Natural Fiber Reinforced Bio-Composite Plastics for Industrial Applications in Oman Code: RC/RG-ENG/MIED/18/01	Khalid Alzebeleh*, Nasr Al-Hinai** , Farooq Al-Jahwari, Tasneem Pervez, Abdul Munam	20,000	TRC of Oman	2019-2021
6	Solving the Periodic Healthcare Planning Problem with Treatment Team (Physician/Nurse) Consistency Using Heuristics and Metaheuristic Approaches Code: RF/ENG/MIED/20/03	Nasr Al-Hinai* , Sujan Piya**	3,000	SQU-Deanship Research Fund	2020-2021
7	Analyzing the effect of Supply Chain Complexity on Supply Chain Performance: Perspective from Omani Industries Code: IG/ENG/MIED/21/03.	Sujan Piya*, Nasr Al-Hinai** , Mohammed Khadem, Mahmood Al-Kindi	3,800	SQU-IG	2021-2022
8	Production of eco-friendly bio-composite materials derived from recycled polymers and date palm waste for industrial applications and	Khalid Alzebeleh*, Nasr Al-Hinai**	3,000	SQU-Deanship	2021-2022

	its Analysis Using Artificial Neural Network Code: RF/ENG/MIED/21/01			Research Fund	
9	Study on machinability of nano date palm particulate bio-composites Code: IG-ENG-MIED-23-02	Nasr Al-Hinai* , Khalid Alzebeleh**	5,600	SQU-IG	2023-2024

*IG = Internal Grant; TRC = The Research Council.

4.3.2. Consultancy

I have conducted and participated in number of consultancies that are non-paid:

- Scheduling the students' buses transportation system within Sultan Qaboos University, 2012.
- Application of Lean Methods to Improve the Health Care Services and Patients Flow at Sultan Qaboos University Hospital (SQUH), 2013.
- Improving the Healthcare Services and Staff Flow at the Neonatal Intensive Care Unit in Royal Hospital, 2016.
- Developing an Automated Crew Scheduling System for SalamAir, 2019.

4.4. Publications

My proficiency as a researcher and leader has resulted in a robust record of publications in peer-reviewed and esteemed journals, numerous conference presentations, contributions to book chapters, and patent application. The following is a comprehensive list of my publication.

4.4.1. Published Refereed Journal Papers

1. Nassar, Mahmoud MA, Khalid I. Alzebeleh, **Nasr Al-Hinai**, and Mahmoud Al Safy. "Enhancing mechanical performance of polypropylene bio-based composites using chemically treated date palm filler." *Industrial Crops and Products* 220 (2024): 119237.
2. Bait Kulaib, Ghaida Q., **Nasr Al-Hinai**, and Khalid Alzebeleh. "Factors influencing communication of virtual teams in times of pandemic: a case study in engineering education." *European Journal of Engineering Education* (2024): 1-18.
3. Alsafy, Mahmoud MM, **Nasr Al-Hinai**, Khalid I. Alzebeleh, El-Said I. El-Shafey, and Mahmoud MA Nassar. "Characterization of extracted bio-nano particles from date palm agro-residues." *Journal of Materials Research and Technology* 30 (2024): 4939-4949.
4. Alzebeleh, Khalid, **Nasr Al Hinai**, Mahmoud Al Safy, and Mahmoud Nassar. "Recycled polymer bio-based composites: A review of compatibility and performance issues." *Recycled Polymer Blends and Composites: Processing, Properties, and Applications* (2023): 363-387.
5. Summad, Emad, Mahmood Al-Kindi, **Nasr Al-Hinai**, Ahm Shamsuzzoha, and Sujana Piya. "The application of agent-based modelling for the diffusion of innovation research: a case study." *International Journal of Business Innovation and Research* 30, no. 4 (2023): 542-564.
6. Mahmoud Nassar, Khalid Alzebeleh, **Nasr Al-Hinai**, and Tasneem Pervez, 2023. A New Multistep Chemical Treatment Method for High Performance Natural Fibers Extraction. *Journal of Natural Fibers*, 20(1), p. 2150922.

7. Mahmoud Nassar, Belal J. Abu Tarboush, BJA, Khalid I. Alzebdeh, **Nasr Al-Hinai**, and Tasneem Pervez, 2022. "New Synthesis Routes toward Improvement of Natural Filler/Synthetic Polymer Interfacial Crosslinking." *Polymers*, vol. 14, no. 3, 629
8. Piya, Sujan, Ahm Shamsuzzoha, Muhammad Azizuddin, **Nasr Al-Hinai**, and Babek Erdebili. "Integrated fuzzy AHP-TOPSIS method to analyze green management practice in hospitality industry in the sultanate of Oman." *Sustainability* 14, no. 3 (2022): 1118.
9. Mahmoud M.A. Nassar, Khalid I. Alzebdeh, Tasneem Pervez, **Nasr Al-Hinai**, and Abdul Munam. "Progress and challenges in sustainability, compatibility, and production of eco-composites: A state-of-art review." *Journal of Applied Polymer Science* 138, no. 43 (2021): 51284.
10. Mahmoud M.A. Nassar; Khalid Alzebdeh; Tasneem Pervez; **Nasr Al-Hinai**; Abdul Munam; Farooq Al-Jahwari; and Ishaq Sider, 2021, "*Polymer powder and pellets comparative performances as bio-based composites*", *Iranian Polymer Journal*, 30(3), 269-283. <https://doi.org/10.1007/s13726-020-00888-4>.
11. **Nasr Al-Hinai** and Ahm Shamsuzzoha, 2021, "*Developing a practical methodology to improve the healthcare services: studying a neonatal intensive care unit case in Oman*", *International Journal of Quality & Reliability Management*, 38(6), pp. 1425-1442. <https://doi.org/10.1108/IJQRM-08-2020-0284>.
12. **Nasr Al-Hinai**, Sujan Piya and Khalid Al-Wardi, 2020, "Analysis of Factors Affecting Motivation in Projects: A Case Study in Oil and Gas Industry in the Sultanate of Oman", *The Journal of Engineering Research*, 17(2), pp. 112 – 125.
13. Sujan Piya, Mohamed Khadem, Ahm Shamsuzzoha, and **Nasr Al-Hinai**, 2020, "Identification of critical factors and their inter-relationships to design agile supply chain: special focus to oil and gas industries", *Global Journal of Flexible Systems Management*, 21(3), 263-281 (<https://doi.org/10.1007/s40171-020-00247-5>).
14. **Nasr Al-Hinai**, and Chefi Triki, 2020, "A Two-Level Evolutionary Algorithm for Solving the Petrol Station Replenishment Problem with Periodicity Constraints and Service Choice", *Annals of Operations Research*, 286(1-2), 325-350, (DOI: 10.1007/s10479-018-3117-3
15. **Nasr Al-Hinai**, Mahmood Al-Kindi, and Ahm Shamsuzzoha, 2018, "An Ergonomic Student Chair Design and Engineering for Classroom Environment," *International Journal of Mechanical Engineering and Robotics Research*, Vol. 7, No. 5, pp. 534-543. DOI: 10.18178/ijmerr.7.5.534-543.
16. Ahm Shamsuzzoha, Mahmood Al-Kindi, and **Nasr Al-Hinai**, (2018) "Open Innovation in Small and Medium Size Enterprises - Perspective from Virtual Collaboration", *International Journal of Engineering and Technology Innovation*, vol. 8, no. 3, pp. 173- 190.
17. Ahm Shamsuzzoha, Sujan Piya, Mahmood Al-Kindi, and **Nasr Al-Hinai**, (2018) "Metrics of product modularity: lessons learned from case companies", *Journal of Modelling in Management*, 13(2), pp. 331-350.
18. Chefi Triki, **Nasr Al-Hinai**, Islam Kaabachi, and Saoussen Krichen, (2016) "An optimization framework for combining the petroleum replenishment problem with the optimal bidding in combinatorial auctions", *International Journal of Supply and Operations Management*, Vol. 3, Issue 2, Summer 2016, Page 1318-1331
19. Chefi Triki, and **Nasr Al-Hinai**, (2016) "Optimisation techniques for planning the petrol replenishment to retail stations over a multi-period horizon", *International Journal of Operational Research*, Vol. 27, Nos. 1/2, pp.341–355

20. **Nasr Al-Hinai**, and Tarek Y. ElMekkawy, 2012, "Solving the Flexible Job Shop Problem with Uniform Processing Time Uncertainty", *International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering*, World Academy of Science, Engineering and Technology, Vol. 6, No. 4, pp. 848-853.
21. **Nasr Al-Hinai**, T. Y. ElMekkawy, 2011, "Robust and Stable Flexible Job Shop Scheduling with Random Machine Breakdowns Using a Hybrid Genetic Algorithm", *International Journal of Production Economics*, Vol. 132, No. 2, pp. 279-291, DOI: 10.1016/j.ijpe.2011.04.020
22. **Nasr Al-Hinai**, T. Y. ElMekkawy, 2011, "An Efficient Hybridized Genetic Algorithm Architecture for the Flexible Job Shop Scheduling Problem", *Journal of Flexible Services and Manufacturing*, Vol. 23, No. 1, p 64-85, DOI: 10.1007/s10696-010-9067-y

4.4.2. Book and Book Chapter

1. Alsafy, Mahmoud, **Nasr Al-Hinai**, and Khalid Alzebeid. "Mechanical Properties of Nano Date Palm versus Nano Titanium Dioxide Particles Reinforced Composites: Experimental Characterization." In *Materials Science Forum*, vol. 1126, pp. 61-75. Trans Tech Publications Ltd, 2024.
2. Qamar, Sayyad Zahid, **Nasr Al-Hinai**, and Fausto Pedro García Márquez. *Quality Control and Quality Assurance: Techniques and Applications*. BoD–Books on Demand, 2024.
3. Alsafy, Mahmoud, **Nasr Al-Hinai**, and Khalid Alzebeid. "Circular Economy of Producing Green Nano Composites from Date Palm Nanoparticle to Reinforce Recycled Polymers." In *Artificial Intelligence, Digitalization and Regulation*, pp. 109-116. Springer, Cham, 2024.
4. Alzebeid, Khalid, **Nasr Al-Hinai**, Mahmoud Al Safy, and Mahmoud Nassar. "Recycled Polymer Bio-based Composites: A Review of Compatibility and Performance Issues", In: Ismail, H., S. M., S., R. A., I. (eds), *Recycled Polymer Blends and Composites: Processing, Properties, and Applications*. Springer, Cham. (2023): 363-387. (https://doi.org/10.1007/978-3-031-37046-5_18)
5. Khalid Alzebeid, Mahmoud Nassar, **Nasr Al-Hinai**, R. Arunachalam and Hani Al Rawahi, 2020, "Assessment of Induced-Delamination of Drilled Date Palm Fronds Polypropylene Bio-Composites", *Key Engineering Materials*, vol. 845, Trans Tech Publications, Ltd., pp. 3-8. (<https://doi.org/10.4028/www.scientific.net/kem.845.3>)
6. Chefi Triki, and **Nasr Al-Hinai**, 2015, "The Periodic Petrol Replenishment Problem: An Overview", In: Abul Hasan Siddiqi, Pammy Manchanda, Rashmi Bhardwaj (ed) *Mathematical Models, Methods and Applications*. Industrial and Applied Mathematics. Springer, pp. 127-136, ISBN: 978-981-287-971-4, (https://doi.org/10.1007/978-981-287-973-8_8).
7. Sujana Piya, and **Nasr Al-Hinai**, 2015, "Production Planning for Make-to-Order Flow Shop System Under Hierarchical Workforce Environment", *Transactions on Engineering Technologies* 2015, In: Gi-Chul Yang, Sio-long Ao, and Len Gelman (Eds.), Springer, pp. 317-330. (https://doi.org/10.1007/978-94-017-9804-4_21)

4.4.3. Selected Conference Proceedings and Presentations

1. Al-Sheheimi, Awadh, Mahmoud Alsafy, **Nasr Al-Hinai**, and Hakan Gultekin. "Defining Artificial Neural Network Hyperparameters for Forecasting Nonstationary Demand of Spare Parts." In *International Conference on Mechanical, Automotive and Mechatronics Engineering*. 2023.

2. Hakan Gultekin, and **Nasr Al-Hinai**. "Unrelated Parallel Machine Scheduling with Sequence and Machine Dependent Setup Times and Resource Constraints." In International Conference on Mechanical, Automotive and Mechatronics Engineering. 2023.
3. Qamar, S. Z., Qamar, S., and **Al-Hinai, N.** 2022. Assessment of Critical Thinking Skills in Engineering Education. In: 2022 ASEE Annual Conference & Exposition., Minneapolis, Minnesota, USA, June 26-29, 2022. (Scopus indexed)
4. **Al-Hinai, N.**, Rahman, M. M. M., and Piya, S. 2022. Critical Success Factors in Construction Related Projects in Oman. In: 12th Annual International Conference on Industrial Engineering and Operations Management, Istanbul, Turkey, March 7 – 10, 2022.
5. Al-Safy, Mahmoud, **Nasr Al Hinai**, and Khalid Alzebdeh. "Production of Date Palm Nanoparticle Reinforced Composites and Characterization of Their Mechanical Properties." In ASME International Mechanical Engineering Congress and Exposition, vol. 86656, p. V003T03A032. American Society of Mechanical Engineers, 2022.
6. Khalid Alzebdeh, Mahmoud Nassar, and **Nasr Al-Hinai**, 2020, "Development of New Eco-Composites From Natural Agro-Residues and Recycled Polymers", The International Mechanical Engineering Congress and Exposition (IMECE2020), Tampa Convention Center, Tampa, Florida, United States, Nov 13-19, 2020. (Scopus indexed)
7. **Nasr Al-Hinai**, Esra' Abusharkh, Asila Al-Shamli, and Emad Summad, 2020, "An Innovative Framework to Measure the Maturity Level of Core Soft Skills and Competencies (SSCM) Needed by Project Managers in Oil and Gas Industry", 10th International Conference on Industrial Engineering and Operations Management (IEOM), Dubai, UAE, March 10-12, 2020, pp. 2597-2604. (Scopus indexed)
8. Esra' Abusharkh, Asila Al-Shamli, **Nasr Al-Hinai**, and Emad Summad, 2019, "Development of Framework for the Core Soft Skills and Competencies Required by Project Managers in Oil and Gas Industry", The Ninth National Symposium on Engineering Final Year Projects (9th NSEFYP), University of Nizwa, Nizwa, Oman, May 1, 2019.
9. Ahmed Mohamed Osman, **Nasr Al-Hinai**, and Sujan Piya, 2019, "Development of Automated Schedule Generator for Nurses in Emergency Department," 2019 8th International Conference on Modeling Simulation and Applied Optimization (ICMSAO), Manama, Bahrain, 2019, pp. 1-3. doi: 10.1109/ICMSAO.2019.8880428. (Scopus indexed)
10. Esra' Abusharkh, Asila Al-Shamli, **Nasr Al-Hinai**, and Emad Summad, 2019, "Development of Framework for the Core Soft Skills and Competencies Required by Project Managers in Oil and Gas Industry", Senior Capstone Design Poster Competition, 9th International Conference on Industrial Engineering and Operations Management (IEOM), Bangkok, Thailand, March 5-7, 2019. (Scopus indexed) Received second prize on senior design project award.
11. Ahmed Mohamed Osman, and **Nasr Al-Hinai**, 2018, "Practical Approach for Solving the Nurse Scheduling Problem at the Hospital Emergency Department", The 2nd International QU-SQU Workshop on Engineering in Medicine, Sultan Qaboos University, Muscat, Oman, Dec. 23, 2018.
12. Khalid Alzebdeh, Mahmoud Nassar, and **Nasr Al-Hinai**, 2018, "Assessment of Induced Delamination during End-Milling of Natural Fiber Reinforced Composites: A Statistical Analysis", DOI: 10.1115/IMECE2018-86978. (Scopus indexed)

13. **Nasr Al-Hinai**, 2018, "An Optimization Model for the Nurse Scheduling at Hospital Emergency Department", International Conference on Operations Research and its Applications, Sultan Qaboos University, Muscat, Oman, April 2-3, 2018.
14. **Nasr Al-Hinai**, Noor Al-Yazidy, Anfal Al-Hooti, and Ekhlash Al-Shereiqli, 2018, "A Goal Programming Model for Nurse Scheduling at Emergency Department", Proceedings of the International Conference on Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018, pp. 99-103. (Scopus indexed)
15. Ahmed Osman, and **Nasr Al-Hinai**, 2018, "Project Management versus Operations Management: A Comparative Study", Proceedings of the International Conference on Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018, pp. 2809-2818. (Scopus indexed)
16. Jaber Al-Jabri, Mazin Al-Abri, Majid Al-Oufi, **Nasr Al-Hinai**, and Mohammed Khadem, 2018, "Coffee Shop Engineering: An Industrial Engineering Perspective", Senior Capstone Design Poster Competition, the International Conference on Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018. (Scopus indexed) Received second prize on senior design project award.
17. Ahm Shamsuzzoha, Mahmood Al-Kindi, and **Nasr Al-Hinai**, 2017, "Application of product modularity in industry: a case study", Proceedings of the International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 11-13, 2017, pp. 1936-1945. (Scopus indexed).
18. **Nasr Al-Hinai**, and Sujan Piya, 2015, "Job shop scheduling for skill-dependent Make-to-order system", Proceedings of the Industrial Engineering and Operations Management (IEOM), 2015 International Conference, March 3-5, 2015, pp.1-5, Dubai, UAE, doi: 10.1109/IEOM.2015.7093814. (Scopus indexed)
19. Sujan Piya, and **Nasr Al-Hinai**, 2014, "Production Planning under Hierarchical Workforce Environment", Lecture Notes in Engineering and Computer Science: Proceedings of The world congress on Engineering 2014, WCE2014, July 2-4, 2014, Imperial College London, U.K., pp. 1029 -1033.

4.4.4. Technical Reports

1. **Nasr Al-Hinai**, and Chefi Triki, "Solving the Periodic Petrol Station Replenishment Problem Using Heuristics and Metaheuristic Approaches", Internal Research Grant Technical Report (IG/ENG/MIED/14/04), Sultan Qaboos University, Sultanate of Oman, 2015.
2. Sujan Piya, and **Nasr Al-Hinai**, "Mediator Based Order Acceptance Decision System For-Make-To-Order Company", Internal Research Grant Technical Report (IG/ENG/MIED/14/05), Sultan Qaboos University, Sultanate of Oman, 2015.
3. **Nasr Al-Hinai**, Sujan Piya, and Mahmoud Al-Kindi, "A Study To Improve Productivity of Oman National Livestock Development Company", Consultancy Technical Report, Oman National Livestock Development Company, Sultanate of Oman, June 2015
4. Abdullah Al-Badi, **Nasr Al-Hinai**, Hossam Hassan, Mahmoud Masoud, Mohammed Al-Badi, Rashid Al-Abri, Sujan Piya, Chaham Alalouch and Ali Al-Nuaimi, "An Inception Report on SQU Streetcar System", Submitted to: H.E. The Vice Chancellor of Sultan Qaboos University, Sultan Qaboos University, June 2016.
5. Chefi Triki, **Nasr Al-Hinai**, Mahmoud Al-Kindi, and Ahm Shamsuzzoha, "Research Chair In Logistics And Transportation", Proposal For The Ministry of Transport and Communications

(MOTC), Submitted to: Office of The Deputy-Vice Chancellor For Postgraduate Studies and Research, Sultan Qaboos University, October 2016.

6. Ahm Shamsuzzoha, Mahmood Al-Kindi, and **Nasr Al-Hinai**, “Measurement of product modularity degree to scale up family of product for achieving competitive advantage: perspectives from selected Omani Small and Medium Enterprises”, Internal Research Grant Technical Report, Sultan Qaboos University, Sultanate of Oman, 2017.
7. **Nasr Al-Hinai** and Sujan Piya, “The Healthcare-Planning Problem with Treatment Team (Physician/Nurse) Consistency”, Final Technical Report submitted to the Deanship of Research – SQU, Project No. RF/ENG/MIED/20/03, Sultan Qaboos University, Sultanate of Oman, 2021.
8. Khalid Alzebdeh, **Nasr Al-Hinai**, Farooq Al-Jahwari, Tasneem Pervez, and Abdul Munam, “Development of Eco-Sustainable Natural Fiber Reinforced Bio-Composite Plastics for Industrial Applications in Oman”, Final Technical Report submitted to the Ministry of Higher Education, Research and Innovation, Grant No. RC/RG-ENG/MIED/18/01, Sultanate of Oman, 2021.
9. Khalid Alzebdeh, and **Nasr Al-Hinai**, “Production of eco-friendly bio-composite materials derived from recycled polymers and date palm waste for industrial applications and its Analysis Using Artificial Neural Network”, Final Technical Report submitted to the Deanship of Research – SQU, Project No. RF/ENG/MIED/21/01, Sultan Qaboos University, Sultanate of Oman, 2022.

4.4.5. Patents

1. Mahmoud Nassar, Khalid Alzebdeh, Abdul Munam, **Nasr Al Hinai**, Tasneem Pervez, Farooq Al-Jahwari, “Preparation Of High Performance Fibers From A Natural Fiber (Date Palm)”, (2020), *World Intellectual Property Organization (WIPO)*, WO2020139088, pending. (<https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020139088&tab=PCTBIBLIO&cid=P22-KF16H5-11821-1>)

4.5. Postgraduate Student Supervision

A crucial aspect of advancing research capabilities and nurturing local capacity is the transfer of research skills to young researchers. In this capacity, I have effectively guided a significant number of graduate students to attain their MSc (12 theses) and PhD (3 theses) degrees, serving as the main supervisor or co-supervisor across diverse areas. The following is a list of selected thesis titles.

4.5.1. Master Theses Titles

- Towards a Resilient Transportation Network under Natural Hazards: Quantitative Hybrid Approach (In-progress).
- A study on Variability of Performance of Continuous Fiber Date Palm Tree Composites: Long Fibers (In-progress).
- Identifying factors influencing compliance of safety rules and regulations in work environment: The case of Muscat International Airport.

- Analysis and Evaluation of Supply Chain Complexity Perspective from MTS and MTO Companies.
- Integrating of Team Planning and Maintenance Scheduling of Geographically Distributed Assets Using a Novel Hybrid Model of Genetic Algorithm and Simulated Annealing.
- Development of Simulation Model for the Scoring & Ranking of the Sultanate of Oman at the Global Innovation Index.
- Solving Multi-Projects Scheduling Problems with Local and Global Resources Constraints (RCMPSP) Using A Heuristic Approach.
- Defining Artificial Neural Networks Hyper Parameters for Forecasting Spare Parts Demand: A case study in the Oil and Gas Industry in Oman.
- Process Modeling and Optimization for Date Palm Plastic Bio-Composite Manufacturing: A Statistical Approach.
- Comparative Analysis of Mechanical Properties and Machinability Conditions of Natural Fiber Reinforced Bio-Composites.
- A periodic Petroleum Station Replenishment Problem with Stochastic Demands.
- Design and implementation of A budget estimation model for oil and gas industry.

4.5.2. PhD Theses Titles

- Effect of Matrix Functionalization on the Performance of Date Palm Particles Filled Virgin and Recycled High-Density Polyethylene (In-progress).
- A Holistic Optimization Framework for Efficient Relocation of Hazmat and Valuables during Natural Disasters (In-progress).
- New Compatibilization Strategies Toward Improvement of Performance of Polypropylene Based Biocomposites.

4.6. Professional Memberships

- Member Mathematical Optimization Society, 2015-2016.
- Member in Industrial Engineering and Operation Management Society, May 2015 – Present (Membership ID # 1436754).
- Professional Member, Institute For Engineering Research and Publications (IFERP), June 2019 – Present (Membership ID # PM90127846)

4.7. Organizing, Chairing Conference Technical Sessions and Professional Services

1. Served as a session chair in the following national and international conferences:
 - Session Chair of the “Production Planning and Management Track”, 2015 5th International Conference on Industrial Engineering and Operations Management (IEOM 2015), 3-5 March 2015, Dubai, UAE
 - Organizing Committee Member, 2016 International Conference on Applied Mechanics and Industrial Systems (ICAMIS 2016), 6-8 Dec 2016, Muscat, Oman
 - Chair Session of Industrial and Systems Engineering 2. The International Conference on Applied Mechanics and Industrial Systems (ICAMIS). Sultanate of Oman, Sultan

Qaboos University, Department of Mechanical and Industrial Engineering, 6-8 December 2016

- Session Chair of the “Operations Research Track”, 8th International Conference on Industrial Engineering and Operations Management (IEOM 2018), 6-8 March 2018, Bandung, Indonesia
 - Organizing Committee Member, 2019 16th World Conference on Applied Science Engineering & Technology (16th WCASET), 21-22 Feb 2019, Dubai, UAE
 - Session Chair of the “SC3: Intelligent Systems”, 8th International Conference on Modeling Simulation and Applied Optimization (ICMSAO’19), Manamah, Bahrain, April 15-17, 2019.
 - Session Chair of the “Operations Management and Optimization Track”, 2022 12th International Conference on Industrial Engineering and Operations Management (IEOM 2022), 7-10 March 2022, Istanbul, Turkey.
 - Scientific Committee Member of the International conference on Science, Engineering Management and Information Technology (SEMIT 2022-Sep) held on September 8-9, 2022 in Ankara, Turkey.
2. Served in jury panel for the SQU – 3 MIN Thesis Competition, April 2019.
 3. Delivered a workshop titled “Introduction to Heuristics & Metaheuristics with Applications in IE”, College of Engineering, Sultan Qaboos University, July 1st and 5th, 2020.

4.8. National and International Recognition in Scholarship

The commitment I've dedicated to research over the years has not only benefited my students but has also earned both them and myself various accolades and recognitions at the local, national, and international levels such as:

1. Associate Editor of The Journal of Engineering Research (TJER), 2014 – 2022.
2. Reviewed Journal Manuscripts for the following Journals:
 - Computers & Industrial Engineering
 - Flexible Services and Manufacturing Journal
 - International Journal of Production Economy (IJPE)
 - The Journal for Engineering Research (TJER)
 - International Journal of Operational Research (IJOR)
 - International Journal of Production Research
 - International Journal of Industrial Engineering and Operations Management (IJIEOM)
 - Sultan Qaboos University Journal for Science (SQUJS)
 - Inter Journal of Computing and Digital Systems'20
3. Reviewed Manuscripts for the following conferences:
 - The Industrial and Systems Engineering Research Conference, ISERC 2014
 - Fifth International Conference on Industrial Engineering and Operations Management, IEOM 2015.

- Sixth International Conference on Industrial Engineering and Operations Management, IEOM 2016.
 - Eighth International Conference on Industrial Engineering and Operations Management, IEOM 2018.
 - 2019 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies, 3ICT 2019.
4. A certificate of Appreciation for active involvement during the 1st Industrial Research Exhibition: Towards Industrial Innovative Solutions, 22 April, 2014.
 5. Research visit to CFDTP Laboratory, Faculty of Engineering, University of Sfax, Tunis, 15th - 19th, Dec 2014
 6. Shamsuzzoha, A., Al-Kindi, M. and Al-Hinai, N. Best track paper award, Paper title: Application of product modularity in industry: a case study. International Conference on Industrial Engineering and Operations Management, Rabat, Morocco, 11-13 April 2017
 7. A certificate of appreciation for giving a research talk by Oman mathematics committee, 3 April 2018.
 8. A certificate of Appreciation from SQU for outstanding achievement in research and winning an international award in research, 2 May 2018.
 9. A certificate of Appreciation for participation in the judging panels of the Three Minute Thesis Completion 2018/2019.
 10. Al-Hinai, N., Piya, S. and Al-Wardi, K. Best published paper award in The Journal of Engineering Research for the year 2020, Paper title: "Analysis of Factors Affecting Motivation in Projects: A Case Study in Oil and Gas Industry in the Sultanate of Oman", Received on May, 2, 2021.
 11. Keynote Speaker at the Second International Conference on Materials Science and Manufacturing Engineering (ICMSME-2021) organized by the Mechanical Engineering Department at Sri Shakthi Institute of engineering and technology, India, December 10, 2021. The title of the talk is "Recent Trends in Performance and Production of Eco-composite Materials".
 12. Co-Supervisor of MSc student: Yahya Al-Hinai – 1st Place winner of "Master Thesis Competition". Title of the thesis: "Analysis and Evaluation of Supply Chain Complexity Perspective from MTS and MTO Companies", Received during the 12th Annual International Conference on Industrial Engineering and Operations Management that was held in Istanbul, Turkey, March 7-10, 2022
 13. Co-Supervisor of PhD student: Mahmoud Nassar – The winner of "Best Ph.D Thesis " at Sultan Qaboos University. Title of the thesis: "New Compatibilization Strategies Toward Improvement of Performance of Polypropylene Based Biocomposites", Received during Sultan Qaboos University Day, May 2023.

5. ADMINISTRATIVE ROLES AND COMMUNITY SERVICES

This section encapsulates the prominent leadership roles I have assumed over the years, emphasizing my unwavering commitment to achieving excellence and being a proactive leader. It showcases my dedication to social, professional, and community services, providing concrete examples of notable achievements.

5.1. University Services

5.1.1. Administrative Position

Seq.	Position	Duration
1.	Head of Department	Aug. 2021 - Present
2.	Assistant Head of Department	Sept. 2020 - July 2021
3.	Acting Head of Department/Dean/Assistant Dean	Several terms

5.1.2. Department Committees

Seq.	Committee Name	Role	Duration
1.	Industrial Engineering Program Coordinator	<u>Coordinator</u>	Sept. 2020 - Present
2.	Industrial Engineering Curriculum Modernization Committee	<u>Chair</u>	April 2020 - June 2020
3.	Industrial Engineering Postgraduate Studies and Research	<u>Coordinator</u>	Sept. 2017 - Aug. 2020
4.	ABET Industrial Engineering Program	<u>Coordinator</u>	Sept. 2014 - Aug. 2017
5.	Department Recruitment Committee	Member	Sept. 2012 - Present
6.	Department Social Activities Committee	<u>Chair</u> Member	Sept. 2011 - Aug. 2017 Sept. 2017 - Aug. 2018
7.	Department Curriculum and Accreditation Committee	Member	Sept. 2012 - Present
8.	Department Continuous Assessment and Evaluation Committee – Industrial Eng. Program	Member <u>Chair</u> Member	Sept. 2012 - Aug. 2014 Sept. 2015 - Aug. 2018 Sept. 2018 - Present
9.	Department Seminar Committee,	<u>Chair</u>	Sept. 2011 - Aug. 2013
10.	Department Strategic Planning Committee	Member <u>Chair</u>	Sept. 2012 - Aug. 2016 Sept. 2020 - Present
11.	Department Peer Review of Teaching Managing Committee	Member	Sept. 2018 - Aug. 2019
12.	Department ad-hoc evaluation committee of the IE MSc and PhD applicants	Member <u>Chair</u> Member	Sept. 2014 - Aug. 2017 Sept. 2017 - Aug. 2019 Sept. 2019 - Aug. 202
13.	Department Students Disciplinary Committee	<u>Chair</u>	Sept. 2018 - Aug. 2019
14.	Department Student-Staff Liaison Committee, IE	Member <u>Chair</u>	Sept. 2011 - Aug. 2013 Sept. 2021 - Present
15.	ICAMIS Conference Logistics Committee,	<u>Chair</u>	Feb. 2015 - Dec. 2016
16.	Department Students Appealing ad-hoc Committee	Member/ <u>Chair</u>	Several times
17.	Department Academic Promotion Committee	<u>Chair</u>	Sept. 2021 - Present

5.1.3. College Committees

Seq.	Committee Name	Role	Duration
1.	College of Engineering Accreditation Committee	Member	Sept. 2014 - Aug. 2017
2.	College of Engineering Social Activities Committee	Member	Sept. 2015 - Aug. 2017
3.	College of Engineering Students Appealing ad-hoc Committee	Member	Several times
4.	College of Engineering Students Disciplinary ad-hoc Committee	Member	Several times
5.	SQU-Streetcar System Committee formed by College of Engineering	Member	Fall 2015
6.	SQU- Alrusayl Industrial Estate (RIE) Exhibition, Industrial Research Exhibition titled: "Towards Industrial Innovative Solutions" Committee	<u>Chair</u> of the Logistics Committee	March 2014 - Jan. 2015
7.	College Board	Member	Aug. 2021 - Present
8.	College Executive Committee	Member	Aug. 2021 - Present
9.	College Academic Promotion Committee	Member	Aug. 2021 - Present
10.	Mechatronics Engineering Steering Committee	<u>Chair</u> Co-Chair	Sept. 2023 - Present Aug. 2021 - Aug. 2023
11.	College Strategic Planning Committee	Member	Aug. 2021 - Present

5.1.4. University Committees

Seq.	Committee Name	Role	Duration
1.	SQU Appealing Committee	Member	May 2013 - July 2013
2.	SQU Internal Institutional Quality Audit (IIQA) Audit Panel - Student Induction	Member	May 2019 - Present
3.	SQU Internal Institutional Quality Audit (IIQA) Audit Panel – Procurement Unit	Member	Sept. 2021 - Dec. 2021
4.	SQU Internal Institutional Quality Audit (IIQA) Audit Panel – Deputy Vice Chancellor for Postgraduate Studies and Research	<u>Chair</u>	Sept. 2023 - Dec. 2023
5.	SQU Individual Performance Measurement Model Team (Ejada)	Member	Oct. 2023 - Present

5.1.5. Events Organization at SQU

- Business and Investment Forum for Renewable Energy in the Arab Regions, November 12-15 2000, SQU, organizing participant.
- International Conference on Applied Mechanics and Industrial Systems 2016 (ICAMIS 2016), December 6-8 2016, SQU, Organizing Committee.
- 2nd International Conference on Unmanned Vehicle Systems (UVS-Oman 2024), February 12-14 2024, SQU, Executive Committee Member.

- 2nd GCC International Industrial Engineering and Operations Management Conference, December 1-3 2024, SQU, Conference Chair.

5.1.6. SQU Representation and Presentations

- Presenting initial cost analysis and alternative solutions of SQU-Streetcar System Project to the H.E. SQU Vice Chancellor and DVC-AFA, SQU (Nov. 3rd, 2015).
- Represented the college in “GAC Activities & Services Seminar”, organized by GCC Standardization Training Center in cooperation with the Directorate General for Standards and Metrology held at the Ministry of Commerce and Industry – Oman, March 21, 2016.
- Keynote Speaker and SQU representative, The Discussion Seminar on School Students Transportation organized by Royal Oman Police, Presentation Title “Security and Safety in School Buses between Theory and Reality and The Future Challenges”, held at Traffic Safety Institute, October 11, 2018.
- SQU nominated member for the Steering Committee of *Makers Oman Center*, Innovation Park Muscat, The Research Council, Oman, May 2020.

5.1.7. Collaboration Programs

- Played a role in establishing a collaboration program between the SQU and Oman Munition Production Company, OMPC.

5.2. Community Service

5.2.1. Technical, National and Professional Services

- Member of the Organizing Committee and the Chair of the Logistic Committee for Industrial Research Exhibition: Towards Industrial Innovative Solutions, at Alrusayl Industrial Estate Area, April 2014.
- Evaluating Societies projects presented at the International Engineering Gathering Event organized by the Engineering Society at SQU in 2014.
- Participated in SQU Open Day, Research Project Poster Exhibition, May 2014 and May 2015.
- Reviewer of the research projects submitted for the College of Engineering Internal Grants – SQU, 2016. In addition, I was involved in the evaluation process of the research projects submitted to the Deanship of Research for Internal Grants – SQU, 2018 and 2019
- A department member of the preparation team and a participant on the event organized by SQU titled “Linking Oman’s Higher Institutions with the Public and Private Sector Exhibition”, held at Oman Convention and Exhibition Center, May 7-9, 2017.
- Member of the Industrial Advisory Board of the Department of Systems Engineering at Military Technological College – Oman, July 2015 – September 2019.
- Reviewer: Ministry of Commerce and Industry, Oman, Reviewed the “Implementation of The Manufacturing Strategy 2040 - Manufacturing for Well-Being” report for the manufacturing strategy of Vision 2040, July 2020.

5.2.2. Social Services

- Delivered a workshop on “Basics of Photography” at Alnaba’ Alkhair Almoshriq Center, September 9-11, 2013.
- Served in jury panels for evaluating the Societies’ projects presented at the International Engineering Gathering Event organized by the Engineering Society at SQU, March 2014.
- Delivered a workshop on “Basics of Photography” to the students of the Institute of Islamic Sciences - Sultan Qaboos Higher Center for Culture and Science - Diwan of Royal Court, November 30, 2015.
- Organized Several Retreat events for the Department of Mechanical and Industrial Engineering - Sultan Qaboos University to review its accreditation progress efforts, the operational plan, team enhancement workshops, etc., in 2016, 2018, 2021, 2022, and 2023.

5.2.3. Prepared and Conducted Short Courses and Workshops

Prepared and conducted the following workshops and short courses:

- Three days workshop and training program on “Project Management”, Dedicated to Royal Air Force – Sultanate of Oman, Sultan Qaboos University, 6th – 8th November 2021.
- Five days workshop and training program on “Production Planning, Project Management, Risk Analysis and Lean Concept” for Metal Engineering Company, 15-19 January 2017.
- Four days workshop and training program on “Fundamentals of Project Management and Risk Analysis”, Sultan Qaboos University, 30th October – 2nd November 2017.
- Four days workshop and training program on “Fundamentals of Project Management and Risk Analysis”, Sultan Qaboos University, 19th – 22nd March 2018.
- Four days workshop and training program on “Fundamentals of Project Management and Risk Analysis”, Sultan Qaboos University, 15th – 18th October 2018.
- Five days workshop and training program on “Fundamentals of Project Management and Risk Analysis”, Dedicated to Ministry of Defense – Sultanate of Oman, Sultan Qaboos University, 24th – 28th February 2019.
- Four days workshop and training program on “Fundamentals of Engineering Project Management and Risk Analysis”, Sultan Qaboos University, 2nd – 5th December 2019.
- Three days workshop and training program on “Project Management”, Dedicated to Royal Air Force – Sultanate of Oman, Sultan Qaboos University, 7th – 9th November 2021.
- Four days workshop and training program on “Fundamentals of Engineering Project Management and Risk Analysis”, Sultan Qaboos University, 28th – 31st March 2022.
- Three days workshop and training program on “Project Management”, Dedicated to Royal Air Force – Sultanate of Oman, Sultan Qaboos University, 6th – 8th November 2022.

- Five days workshop and training program on “Fundamentals of Project Management and Risk Analysis”, Dedicated to Ministry of Defense – Sultanate of Oman, Sultan Qaboos University, 25th – 29th December 2022.
- Two days workshop and training program on “Project Management”, Dedicated to Royal Air Force – Sultanate of Oman, Sultan Qaboos University, 18th – 19th June 2023.
- Five days workshop and training program on “Supply Chain Management”, Sultan Qaboos University, 24th – 28th December 2023.

5.3. Personal Development in Services

- Three months of industrial training at TECNIQUE company, Oman, 1997.
- Two months of summer internship at Schlumberger Oilfield Services Company-Anadrill, Doha, Qatar, 1999.
- Participated in one-day training workshop “Patent Search” held at Sultan Qaboos University, conducted by Prof. Siddharth Jabade, Coordinator, Intellectual Property Rights Facilitation Center, Vishwakarma Institute of Technology, Pune India, Nov 30, 2015
- Attended one-day Seminars Series titled “GAC Activities & Services Seminar” held at Ministry of Commerce and Industry, Muscat, Oman, conducted by GCC Standardization Organization, March 21, 2016 (Ref. 20160208)
- Participated in five-day training workshop “The Complete Leadership Training Course” conducted by Dr. Tareq Al-Suwaidan, Grand Millennium Hotel, Muscat, Oman, Dec. 16-20, 2018.
- Attended the INGSA Science/Policy Interface workshop, Oman Convention & Exhibition Centre, Muscat, Oman, Feb. 13, 2019.
- Participated in seven-day training course about “Project Management Professional (PMP)” organized by Sonna Almohheb Training Center, KSA, 26 May – 1 June 2020.
- Participated in three-day training workshop about “Change Management” organized by Center for Human Resources Development, SQU, 25-29 September 2022.

5.4. Recognition in Services

- Financial reward from Sultan Qaboos University for the outstanding services delivered in the 1st exhibition of Towards Industrial Innovation Solutions organized by the Industrial Innovation Center (IIC) and College of Engineering, June 2014.
- A Certificate of Appreciation for delivering a workshop on “Basics of Photography” to the students of the Institute of Islamic Sciences - Sultan Qaboos Higher Center for Culture and Science - Diwan of Royal Court, November 30, 2015.
- A Certificate of Appreciation for outstanding efforts in College Social Committee, College of Engineering during the academic year 2015-2016.
- A Certificate of Appreciation for outstanding efforts in SQU Streetcar System Project, College of Engineering during the academic year 2016-2017.
- Received the **“IEOM Distinguished Academic Leadership Award”** for exceptional academic leadership contributions to the field of industrial engineering and operations management. Received during the 2nd GCC International IEOM Conference, Muscat, Oman, December 3, 2024.