

# CURRICULUM VITAE

Nasr Al-Hinai

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## 1. PERSONAL INFORMATION

Nationality: Omani  
Address: Department of Mechanical and Industrial Engineering,  
College of Engineering, Sultan Qaboos University, P.O. Box 33 AlKhodh,  
Muscat, P.C.123 Office: (+968) 2414-2553, Fax: (+968) 2414-1316,

## 2. EDUCATION AND EMPLOYMENT

### 2.1. Education

<i>PhD. Industrial Engineering</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 History

<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>

## 3. UNIVERSITY TEACHING AND LEARNING

### 3.1. Undergraduate Courses

Course	Title	Semester (section)
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1	MEIE2129	Basic Mechanics	Spring 2011 (10) Fall 2011 (10) Spring 2012 (10) Spring 2012 (20) Fall 2012 (10) ±Spring 2013 (10) Spring 2013 (20) Fall 2013 (10) ±Spring 2014 (10)
2	PNGE2102	Basic Mechanics	±Spring 2016 (10)
3	MEIE3261	Product Design and Development	Spring 2012 (10) Spring 2013 (10) Spring 2014 (10) Spring 2015 (10)
4	MEIE3281	Probabilities and Statistics for Engineers	Summer 2015 (20)
5	MEIE4281	Probabilities and Statistics for Engineers	Summer 2012 (20) Summer 2013 (10) Summer 2014 (20)
6	MEIE4222	Production Planning & Control	Fall 2012 (10) Fall 2012 (20) Fall 2013 (10) Fall 2013 (20) Fall 2014 (10) Fall 2015 (10) Fall 2016 (10) Fall 2017 (10) Fall 2018 (10) Fall 2022 (10)
7	MEIE4275	Facilities Design and Logistics	Spring 2018 (10) Spring 2019 (10) Spring 2021 (10)
8	MEIE4286	Management for Engineers	Spring 2015 (10)
9	MEIE5273	Product Design and Manufacturing	Spring 2016 (10) Spring 2017 (10) Spring 2018 (10) Spring 2019 (10) Spring 2021 (10) Spring 2022 (10)
10	MEIE5287	Project Management	Fall 2014 (10) Fall 2015 (10) Fall 2016 (10)

			Spring 2017 (10)
			Fall 2017 (10)
			Fall 2018 (10)
			Fall 2020 (10)
11	MEIE5295	IE Seminar	Fall 2011 (10)
12	MEIE4198	Mechanical Engineering Seminar II	Fall 2011 (10)
13	MEIE3198	Mechanical Engineering Seminar I	Fall 2011 (10)
14	MCTE5198	Mechatronics Engineering Seminar II	Fall 2011 (10)
15	MCTE4298	Mechatronics Engineering Seminar I	Fall 2011 (10)

### 3.2. Postgraduate Courses

	Course	Title	Semester
1	MEIE6001	Project Engineering and Management	Fall 2014 Fall 2017 Fall 2018 Fall 2020 Fall 2021
2	MEIE6212	Directed Studies	Spring 2014 Spring 2018 <sup>‡</sup> Spring 2019

<sup>‡</sup>Course Coordinator and instructor of one student.

### 3.3. Advising and Supervision

#### 3.3.1. Supervision of Final Year Projects

- Title:** *“Optimizing students’ public transportation system within Sultan Qaboos University”*  
 Role: Principal supervisor  
 Duration: Spring 2012- Fall 2012  
 Students: Omar AL-Naabi (ID: 83781)  
 Saleh Al-Hadhrami (ID: 83775)  
 Mazin Al-Dhamri (ID: 82135)
- Title:** *“Designing An Inventory Control System For The Medical Equipment Spare Parts at Khoula hospital.”*  
 Role: Principal supervisor  
 Duration: Spring 2013-Fall 2013  
 Students: Hamed Al-Julandani (ID: 70833)

Sultan Al-Balushi (ID: 83877)

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3. **Title:** *“Application of Lean Methods to Improve the Health Care Services and Patients Flow at Sultan Qaboos University Hospital (SQUH)”*

Role: Principal supervisor  
Duration: Fall 2012-Spring 2013  
Students: Asad Sulaiman AL-Rahbi (ID: 69695)  
Maamar Hamid Baitsaid (ID: 82175)

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4. **Title:** *“Job-Shop Scheduling For Skill-Dependent Make-To-Order System Using a Meta-Heuristic Approach.”*

Role: Principal supervisor  
Duration: Fall 2013-Spring 2014  
Students: Amira Al-Kharusi (ID: 89510)  
Muzna Al-Rahbi (ID: 88615)  
Siham Al-Hashmi (89457)

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5. **Title:** *“Designing an Ergonomic Student Classroom Chair: “Comfy-Chair”.”*

Role: Principal supervisor  
Duration: Fall 2013-Spring 2014  
Students: Saif Rashid Al-Abri (ID: 86153)  
Abdulaziz Al-Hadidi (ID: 89235)  
Bader Al-Abri (ID: 86762)  
Yusuf Tabook (ID: 86212)

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6. **Title:** *“Improving productivity of Oman National Livestock Development Company Through Waste Elimination.”*

Role: Principal supervisor  
Duration: Fall 2014-Spring 2015  
Students: Ghadeer Al-Lawati (ID: 93172)  
Shaima Al-Lawati (ID: 93519)  
Wala Al-Lawati (ID: 95990)

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7. **Title:** *“Analyze and Improvement of the Baggage Handling System at Muscat International Airport.”*

Role: Co- supervisor  
Duration: Spring 2015-Fall 2015  
Students: Hadi AL-Abri (ID: 94492)  
Ahmed AL-Mahrrouqi (ID: 93229)  
Khalifa AL-Shukaili (ID: 94680)

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8. **Title:** *“Determination of Product Modularity Level within Omani Small and Medium Enterprise.”*

Role: Co- supervisor  
Duration: Spring 2015-Fall 2015  
Students: Faris Al-Maskari (ID: 94657)  
Said Al-Lawati (ID: 91057)  
Mustafa Al-Adawi (ID: 89414)  
Muhannad Al-Tamimi (ID: 91069)

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9. <b>Title:</b> <i>"Improving the Healthcare Services and Staff Flow at the Neonatal Intensive Care Unit in Royal Hospital."</i>	Role: Principal supervisor Duration: Fall 2015-Spring 2016 Students: Wisam Al-Mahrouqi (ID: 95981) Ibthaj Al-Balushi (ID: 97017) Taghreed Al-Wahaibi (ID: 97870)
10. <b>Title:</b> <i>"Designing an Automated Scheduling Emergency Room Nurses at SQUH."</i>	Role: Principal supervisor Duration: Fall 2016-Spring 2017 Students: Noor Al-Yazidy (ID: 103313) Anfal Al-Hooti (ID: 102973) Ekhlal Al-Sherei (ID: 101176)
11. <b>Title:</b> <i>"Coffee Shop Engineering: An Industrial Engineering Perspective."</i>	Role: Principal supervisor Duration: Fall 2017-Spring 2018 Students: Jaber Al-Jabri (ID: 99212) Mazin Al-Abri (ID: 103039) Majid Al-Oufi (ID: 102032)
12. <b>Title:</b> <i>"Development of Framework for the Core Soft Skills and Competencies Required by Project Managers in Oil and Gas Industry."</i>	Role: Principal supervisor Duration: Fall 2018-Spring 2019 Students: Asila Nasser Al-Shamli (ID: 103114) Esra' Abdulfattah Abusharkh (ID: 113786)
13. <b>Title:</b> <i>"Developing an Automated Crew Scheduling System for SalamAir."</i>	Role: Co-supervisor Duration: Spring 2019-Fall 2019 Students: Nahla Mahmoud Al-Lamki (ID: 111148) Sheikha Saleh Al-Senaidi (ID: 111817) Shaima Salam Al-Toobi (ID: 111037)
14. <b>Title:</b> <i>"The Healthcare-Planning Problem with Treatment Team (Physician/Nurse) Consistency."</i>	Role: Principal supervisor Duration: Fall 2020-Spring 2021 Students: Nasser Al-Wahaibi (ID: 111212) Qabas Al-Rawas (ID: 117101) Abdulaziz Al-Maamri (ID: 111930)
15. <b>Title:</b> <i>"Investigating the challenges and factors influencing Project Success during the Covid-19 pandemic in Oman."</i>	Role: Principal supervisor Duration: Fall 2021-Spring 2022 Students: Afnan Al-Saddi (ID: 120175)

16. **Title:** *"A Framework for the Data-Driven Decision-Making Process for Cost Analysis of an IoT (Internet of Things) Monitoring Platform in Warehouses."*

Role: Principal supervisor

Duration: Fall 2022-Present

Students: Razan Al Khambashi (ID: 120024)

Fatma Al Jadidi (ID: 126069)

Sharifa Al Riyami (ID: 123734)

Wasan Al Siyabi (ID: 122499)

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### 3.4. Curriculum Development

#### 3.4.1. Course reforms

I have reformed the following courses by updating the textbooks, course contents by adding more advanced and additional material coverage needed by local industry, carefully re-designing course projects so that they are linked to the community, provided better project evaluation themes, creating lecture notes, and modifying the course outline:

- MEIE2129 and PNGE2102: Basic Mechanics (undergraduate core course)
- MEIE3261: Product Design and Development (undergraduate core course)
- MEIE4222: Production Planning & Control (undergraduate core course)
- MEIE4275: Facilities Design and Logistics (undergraduate core course)
- MEIE5287: Project Management (undergraduate elective course)
- MEIE6001: Project Engineering and Management (postgraduate elective course)

#### 3.4.2. Course development

I developed the following course:

- MEIE5273: Product Design and Manufacturing (undergraduate elective course for cohorts 2011 and 2012 and core course for cohort 2013 and onward)

#### 3.4.3. Lab development

- Introduced using patents databases for the course (MEIE5273) by delivering a short workshop to the course students about patent search.
- Introduced using MS Project software for the courses for (MEIE5287, and MEIE6001)

### 3.5. Curriculum Review and Accreditation

- 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.

### 3.6. Personal Development in Teaching

Attended several workshops in Engineering Education and program accreditation as follow:

- 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.

### 3.7. Recognition in Teaching

1. “Letter of Appreciation” from Head of Department of Mechanical and Industrial Engineering for working in the Help Desk in the department where I provided help and tutorials in basic courses to first and second year students in the department for the period February 28 to May 16 2001.
2. “Letter of Appreciation” from HE Vice-Chancellor of SQU for participating in the academic accreditation process leading to ABET accreditation in August 2014.
3. Supervisor of students: Amira Al-Kharusi, Muzna Al-Rahbi, Siham Al-Hashmi – won the **3<sup>rd</sup> 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.

4. Received the **“Distinguished Teacher Award”**, College of Engineering, Sultan Qaboos University, received during the University day celebration on May 2<sup>nd</sup>, 2016.
5. Supervisor of students: Noor Al-Yazidy, Anfal Al-Hooti, Ekhlas Al-Shereiqli – won the **1<sup>st</sup> 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.
6. Supervisor of students: Jaber Al-Jabri, Mazin Al-Abri, Majid Al-Oufi – won the **2<sup>nd</sup> Place** of the Senior Design Poster Competition. Title of the project: “Coffee Shop Engineering: An Industrial Engineering Perspective”, Received during the 8<sup>th</sup> IEOM Conference, Bandung, Indonesia, March 7, 2018.
7. Received the **“Teaching Excellence Award”** for exceptional teaching contributions to the field of industrial engineering and operations management. Received during the 8<sup>th</sup> IEOM Conference, Bandung, Indonesia, March 7, 2018.
8. Financial reward from Ministry of Higher Education, Oman, for reviewing and evaluating the Master of Engineering (MEng) in Industrial Production and Manufacturing, 2018.
9. Supervisor of students: Jaber Al-Jabri, Mazin Al-Abri, Majid Al-Oufi – won the **1<sup>st</sup> 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.
10. Supervisor of students: Esra’ Abusharkh, Asila Al-Shamli – won the **2<sup>nd</sup> 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 9<sup>th</sup> International Conference on Industrial Engineering and Operations Management at JW Marriott, Bangkok, Thailand during March 5-7, 2019.
11. A certificate of Appreciation from SQU for winning an international award in Teaching Excellence, 2 May 2019.
12. 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 20<sup>th</sup> International Business Horizon World Summit, Nordia, India, February 19, 2020.
13. Supervisor of students: Nasser Al-Wahaibi, Abdulaziz Al-Mamari, Qabas Al-Rawas – won the **3<sup>rd</sup> 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 11<sup>th</sup> International Conference on Industrial Engineering and Operations Management at Singapore during March 7-11, 2021.
14. A certificate of Appreciation from SQU for winning an international award in Teaching Excellence, 2 May 2021.
15. Supervisor of students: Afnan Al-Saddi, and Laila Al-Jahwari – winners of the **3<sup>rd</sup> 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 12<sup>th</sup> Annual International Conference on Industrial Engineering and Operations Management that was held in Istanbul, Turkey, March 7-10, 2022.

## 4. SCHOLARLY ACHIEVEMENTS

### 4.1. Research Interests

The broad area of my research is Industrial Engineering Applications. My Interests are in scheduling, production planning and control, product development and design, Lean Six Sigma, project management and manufacturing.

### 4.2. Scholastic International Listings

#### 4.2.1. Scopus

Documents:	30
Citations:	342
h-index:	8
Co-authors:	33

Scopus Author Details:

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

#### 4.2.2. Google Scholar

	All	Since 2018
Citations:	594	389
h-index:	10	10
I10-index:	11	11

Google Scholar Author Details:

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

#### 4.2.3. Researchgate

Citations:	421
Research items:	41
Research Interest Score:	450.7
Reads:	65,955
h-index:	9

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 <sup>+</sup>	Year
1	Solving the Periodic Petrol Station Replenishment Problem Using Heuristics and Metaheuristic Approaches Code: IG/ENG/MIED/14/04	<b>Nasr Al-Hinai*</b> , 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*, <b>Nasr Al-Hinai**</b>	4,491	SQU-IG	2014-2015
3	A Study To Improve Productivity of Oman National Livestock Development (ONLD) Company	<b>Nasr Al-Hinai*</b> , 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**, <b>Nasr Al-Hinai</b>	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 Alzebedeh*, <b>Nasr Al-Hinai**</b> , 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	<b>Nasr Al-Hinai*</b> , 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*, <b>Nasr Al-Hinai**</b> , 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 its Analysis Using Artificial Neural Network Code: RF/ENG/MIED/21/01	Khalid Alzebdeh*, <b>Nasr Al-Hinai**</b>	3,000	SQU-Deanship Research Fund	2021-2022
9	Study on machinability of nano date palm particulate bio-composites Code: IG-ENG-MIED-23-02	<b>Nasr Al-Hinai*</b> , Khalid Alzebdeh**	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

##### 4.4.1. Published Refereed Journal Papers

1. Emad Summad, Mahmood Al-Kindi, **Nasr Al-Hinai**, Ahm Shamsuzzoha and Sujan Piya, 2021, "The Application of Agent-Based Modelling for The Diffusion of Innovation Research: A Case Study", Accepted in International Journal of Business Innovation and Research.
2. Mahmoud Nassar, Khalid Alzebdeh, **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.
3. 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
4. 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.
5. Sujan Piya, Ahm Shamsuzzoha, Muhammad Azizuddin, **Nasr Al-Hinai**, 2021, "Integrated Fuzzy AHP-TOPSIS Method to Analyze Green Management Practice in Hospitality Industry", Accepted in *Sustainability*
6. 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.

7. 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>.
8. **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>.
3. **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.
4. 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>).
5. **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
6. **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.
7. 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.
8. 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.
9. 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
10. 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
11. **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.
12. **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

13. **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 Chapter

1. Khalid Alzebeleh, 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>)
2. 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](https://doi.org/10.1007/978-981-287-973-8_8)).
3. Sujan 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](https://doi.org/10.1007/978-94-017-9804-4_21))

#### 4.4.3. Conference Proceedings and Presentations

1. 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**)
2. **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
3. Khalid Alzebeleh, 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**)
4. **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", 10<sup>th</sup> International Conference on Industrial Engineering and Operations Management (IEOM), Dubai, UAE, March 10-12, 2020, pp. 2597-2604. (**Scopus indexed**)
5. 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 (9<sup>th</sup> NSEFYP), University of Nizwa, Nizwa, Oman, May 1, 2019.
6. Ahmed Mohamed Osman, **Nasr Al-Hinai**, and Sujan Piya, 2019, "Development of Automated Schedule Generator for Nurses in Emergency Department," 2019 8<sup>th</sup> International Conference on Modeling Simulation and Applied Optimization (ICMSAO), Manama, Bahrain, 2019, pp. 1-3. doi: 10.1109/ICMSAO.2019.8880428. (**Scopus indexed**)



7. 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, 9<sup>th</sup> 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.
8. 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.
9. Khalid Alzebedeh, 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)**
10. **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.
11. **Nasr Al-Hinai**, Noor Al-Yazidy, Anfal Al-Hooti, and Ekhlas 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)**
12. 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)**
13. 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.
14. 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).**
15. Khalid Alzebedeh, Mahmoud Nassar, Hani Al Rawahi, and **Nasr Al-Hinai**, 2016, "Characterization of Mechanical Properties of Date Palm Fronds Reinforced Composites: A Comparative Evaluation", Proceedings of the ASME 2016 International Mechanical Engineering Congress and Exposition. Volume 14: Emerging Technologies; Materials: Genetics to Structures; Safety Engineering and Risk Analysis. Phoenix, Arizona, USA. November 11–17, 2016. V014T11A043. ASME. <https://doi.org/10.1115/IMECE2016-66573>. **(Scopus indexed)**
16. Chefi Triki , **Nasr Al-Hinai**, Islam Kaabachi, and Saoussen Krichen, 2016, "Towards combining the periodic petroleum station replenishment problem within a combinatorial auction framework in Oman", Proceedings of the International Industrial Engineering Conference, pp. 4337-4345, Tehran, Iran.

17. Ahm Shamsuzzoha, Faris Al-Maskari, Said Al-Lawati, Mustafa Al-Adawi, Muhannad Al-Tamimi, **Nasr Al-Hinai**, and Mahmood Al-Kindi, 2015, "Measurement of modularity level within selected Omani small and medium size enterprises", Modeling and Managing Complex Systems - Proceedings of the 17th International Dependency and Structure Modeling Conference, DSM 2015, Fort Worth, Texas, USA, November 4-6, 2015, pp. 267-276. (**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.
20. **Nasr Al-Hinai**, Omar Al-Naabi, Mazin Al-Dhamri, and Saleh Al-Hadhrami, 2014, "Practical Approach for Improving and Scheduling Organizational Public Bus Transportation Systems," The 2014 Industrial and Systems Engineering Research Conference, Montreal, Canada, May 31- Jun 3, 2014.
21. **Nasr Al-Hinai**, Mohammad Khadem and Mahmoud Al-Kindi, "Improve the Healthcare Service and Patients Flow at Ophthalmology Clinic at Sultan Qaboos University Hospital Using Six Sigma," IEOM 2014 : 4<sup>th</sup> International Conference on Industrial Engineering and Operations Management (IEOM), Bali, Indonesia, January 7-9, 2014. (**Scopus indexed**)
22. Chefi Triki, and **Nasr Al-Hinai**, 2012, "The Periodic Petrol Station Replenishment Problem: An Overview", Proceedings of the 11th Biennial Conference of the Indian Society of Industrial and Applied Mathematics, 15-16 Dec 2012, Delhi.
23. **Nasr Al-Hinai**, and T. Y. ElMekkawy, 2009, "A Robust Genetic Algorithm Approach for the Flexible Job-Shop Scheduling Problem," 9<sup>th</sup> Int. Conf. on Production Engineering, Design, and Control, PEDAC'2009, 10-12 February 2009, Alexandria, Egypt, Paper #86.
24. A. Saremi, **N. Al-Hinai**, G. Wang, and T. Y. ElMekkawy, 2007, "Multi-agent Normal Sampling Technique (MANST) for Global Optimization," 2007 Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, DETC2007, 6 PART A, pp. 297-306. (**Scopus indexed**)

#### 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, Examination and Advising

##### 4.5.1. 4.6.1 Master Students Supervision

1. Student: Ahmed Al-Qassabi  
Thesis work: *Identifying factors influencing compliance of safety rules and regulations in work environment: The case of Muscat International Airport*

- |  |                 |                |
|--|-----------------|----------------|
|  | Sponsor:        | Self-sponsored |
|  | Engagement:     | Part-time      |
|  | Year Completed: | 2022           |
|  | <b>Role:</b>    | Supervisor     |
- 
2.    Student:                      Yahya Al Hinai  
       Thesis work:                *Analysis and Evaluation of Supply Chain Complexity Perspective from MTS and MTO Companies*  
       Sponsor:                     Sultan Qaboos University  
       Engagement:                Part-time  
       Year Completed:            2022  
       **Role:**                        Co-supervisor
  
  3.    Student:                      Azza Al Riyami  
       Thesis work:                *Integrating of Team Planning and Maintenance Scheduling of Geographically Distributed Assets Using a Novel Hybrid Model of Genetic Algorithm and Simulated Annealing*  
       Sponsor:                     Self-sponsored  
       Engagement:                Part-time  
       Year Completed:            2022  
       **Role:**                        Thesis Committee Member
  
  4.    Student:                      Abdulwahab Al-Maimani  
       Thesis work:                *Development of Simulation Model for the Scoring & Ranking of the Sultanate of Oman at the Global Innovation Index*  
       Sponsor:                     Sultan Qaboos University  
       Engagement:                Part-time  
       Year Completed:            2021  
       **Role:**                        Thesis Committee Member
  
  5.    Student:                      Faisal Al-Rawahi  
       Thesis work:                *Solving Multi-Projects Scheduling Problems with Local and Global Resources Constraints (RCMPSP) Using A Heuristic Approach*  
       Sponsor:                     Self-sponsored  
       Engagement:                Full-time  
       Year Completed:            2021  
       **Role:**                        Co-supervisor
  
  6.    Student:                      Awadh Al Shehemi  
       Thesis work:                *Defining Artificial Neural Networks Hyper Parameters for Forecasting Spare Parts Demand: A case study in the Oil and Gas Industry in Oman*  
       Sponsor:                     Self-sponsored  
       Engagement:                Part-time

- Year Completed: 2020  
**Role:** Supervisor
7. Student: Ahmed Osman Mohamed  
 Thesis work: *Process Modeling and Optimization for Date Palm Plastic Bio-Composite Manufacturing: A Statistical Approach*  
 Sponsor: Self-sponsored  
 Engagement: Part-time  
 Year Completed: 2019  
**Role:** Supervisor
8. Student: Mahmoud Majed Ahmed  
 Thesis work: *Comparative Analysis of Mechanical Properties and Machinability Conditions of Natural Fiber Reinforced Bio-Composites*  
 Sponsor: Sultan Qaboos University  
 Engagement: Full-time  
 Year Completed: 2016  
**Role:** Thesis Committee Member
9. Student: Dorra Jriji  
 Thesis work: *A periodic Petroleum Station Replenishment Problem with Stochastic Demands*  
 Sponsor: I secured Partial Funding via SQU-IG No. IG/ENG/MIED/14/04  
 University: The High Institute of Management of Tunis, University of Tunis  
 Engagement: Full-time  
 Year completed: 2015  
**Role:** Co-supervisor
10. Student: Mojtaba Al-Lawati  
 Thesis work: *Design and implementation of A budget estimation model for oil and gas industry*  
 Sponsor: PDO  
 Engagement: Full-time  
 Year completed: 2015  
**Role:** Thesis Committee Member

#### 4.5.2. PhD Students Supervision

1. Student: Mahmoud Mukhtar  
 Thesis work: *Natural Fiber Reinforced Recyclable Bio-Composites*  
 Sponsor: Sultan Qaboos University  
 Engagement: Full-time  
 Year completed: In progress

- |                 |  |
|-----------------|--|
| <b>Role:</b>    | Supervisor                                     |
| 2. Student:     | Mahmoud Majed Ahmed                            |
| Thesis work:    | <i>Natural Fiber Reinforced Bio-Composites</i> |
| Sponsor:        | Sultan Qaboos University                       |
| Engagement:     | Full-time                                      |
| Year completed: | In progress                                    |
| <b>Role:</b>    | Co-supervisor                                  |

#### 4.5.3. Thesis and Preliminary Examination

1. Title: *Modelling of Supply Chain with 3D Printed Versus Conventionally Produced Parts*  
Student: Asma Mecheter  
Degree: MSc - College of Engineering/Mechanical Engineering – Qatar University  
Type: Final Thesis Defense  
Supervisor: **Faris Tarlochan**  
Date: December 2022  
**Role:** External Examiner
  
2. Title: *“Constructability”- Research advancement and state of practice review in construction in Muscat Governorate*  
Student: Said Mubarak Ali Al Hamdani  
Degree: MSc  
Type: Final Thesis Defense  
Supervisor: **Mubarak Al-Alawi**  
Date: August 2021  
**Role:** External Examiner
  
3. Title: *Engineering Properties of Concrete Reinforced with Recycled Waste Fibers (Steel and Polymer)*  
Student: Osama Al Wahaibi  
Degree: MSc  
Type: Final Thesis Defense  
Supervisor: **Mohammed Meddah**  
Date: May 2021  
**Role:** Chair Person
  
4. Title: *Application Of Reliability Centered Maintenance In Maritime Operation Using Multi-Criteria Decision Approach And Fuzzy Logic*  
Student: Hilal Ali Al-Ghanami  
Degree: MSc  
Type: Final Thesis Defense  
Supervisor: **Sujan Piya**

Date: June 2020  
Role: Member and HoD Delegate

5. Title: *Evaluation of Mechanical Properties and Manufacturing Parameters of Flaked Date Palm Fronds Reinforced Polypropylene Composites*
- Student: Hani Hilal Al-Rawahi  
Degree: MSc  
Type: Final Thesis Defense  
Supervisor: **Khalid Alzebdeh**  
Date: May 2016  
Role: Member and HoD Delegate

#### 4.5.4. Teaching Management and Graduate Advising

- The Postgraduate Studies and Research (DPGSR) Coordinator for Industrial Engineering Program from September 2017 to September 2019.
- Chair of the M.Sc. and PhD Applicants Ad-hoc Selection Committee for the IE Program from September 2017 to 2019.
- Member and evaluator at the M.Sc. and PhD Applicants Ad-hoc Selection Committee for the IE Program from 2014 to 2017 and 2020 to Present.
- September 2017 – September 2019, I served as the academic advisor for all IE postgraduate students ( $\approx 15$ ), MSc and PhD students.

#### 4.6. Scholarship Awards

- Sultan Qaboos University, sabbatical leave recipient, 2019-2020
- Sultan Qaboos University, PhD Degree Scholarship recipient, 2006-2010
- Sultan Qaboos University, Master Degree Scholarship recipient, 2002-2003

#### 4.7. 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)

#### 4.8. 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 5<sup>th</sup> 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”, 8<sup>th</sup> International Conference on Industrial Engineering and Operations Management (IEOM 2018), 6-8 March 2018, Bandung, Indonesia
  - Organizing Committee Member, 2019 16<sup>th</sup> World Conference on Applied Science Engineering & Technology (16<sup>th</sup> WCASET), 21-22 Feb 2019, Dubai, UAE
  - Session Chair of the “SC3: Intelligent Systems”, 8<sup>th</sup> 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 12<sup>th</sup> 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 1<sup>st</sup> and 5<sup>th</sup>, 2020.

#### 4.9. National and International Recognition in Scholarship

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 1<sup>st</sup> Industrial Research Exhibition: Towards Industrial Innovative Solutions, 22 April, 2014.
  5. Research visit to CFDTP Laboratory, Faculty of Engineering, University of Sfax, Tunis, 15<sup>th</sup> - 19<sup>th</sup>, 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

## 5. UNIVERSITY AND COMMUNITY SERVICES

### 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	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	Sept. 2012 - Aug. 2016
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>	Sept. 2014 - Aug. 2017 Sept. 2017 - Present
13.	Department Students Disciplinary Committee	<u>Chair</u>	Sept. 2018 - Aug. 2019
14.	Department Student-Staff Liaison Committee, IE	Member	Sept. 2011 - Aug. 2013
15.	ICAMIS Conference Committee,	Member	Feb. 2015 - Dec. 2016
16.	Department Students Appealing ad-hoc Committee	Member/ <u>Chair</u>	Several times

#### 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

#### 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

#### 5.1.5. Events Organization at SQU

- Business and Investment Forum for Renewable Energy in the Arab Regions, November 12-15 2000, organizing participant.
- International Conference on Applied Mechanics and Industrial Systems 2016 (ICAMIS 2016), December 6-8 2016, Organizing Committee.

#### 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.

#### 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, 6<sup>th</sup> – 8<sup>th</sup> 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, 30<sup>th</sup> October – 2<sup>nd</sup> November 2017.
- Four days workshop and training program on “Fundamentals of Project Management and Risk Analysis”, Sultan Qaboos University, 19<sup>th</sup> – 22<sup>nd</sup> March 2018.
- Four days workshop and training program on “Fundamentals of Project Management and Risk Analysis”, Sultan Qaboos University, 15<sup>th</sup> – 18<sup>th</sup> 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, 24<sup>th</sup> – 28<sup>th</sup> February 2019.
- Four days workshop and training program on “Fundamentals of Engineering Project Management and Risk Analysis”, Sultan Qaboos University, 2<sup>nd</sup> – 5<sup>th</sup> December 2019.
- Three days workshop and training program on “Project Management”, Dedicated to Royal Air Force – Sultanate of Oman, Sultan Qaboos University, 7<sup>th</sup> – 9<sup>th</sup> November 2021.
- Four days workshop and training program on “Fundamentals of Engineering Project Management and Risk Analysis”, Sultan Qaboos University, 28<sup>th</sup> – 31<sup>st</sup> March 2022.
- Three days workshop and training program on “Project Management”, Dedicated to Royal Air Force – Sultanate of Oman, Sultan Qaboos University, 6<sup>th</sup> – 8<sup>th</sup> 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, 25<sup>th</sup> – 29<sup>th</sup> December 2022.

### 5.3. Personal Development in Services

- Three months of industrial training at TECHNIQUE 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-Suaidan, 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 1<sup>st</sup> exhibition of Towards Industrial Innovation Solutions organized by the Industrial Innovation Center (IIC) and College of Engineering, June 2014.
- A certificate of Appreciation 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.