Title & Name	Prof. Mohammed Albadi
Education	- Ph.D.: University of Waterloo, 22 January 2010
	- M.Sc.: Aachen University of Technology, 6 October 2003
	- B.Eng.: Sultan Qaboos University, 7 October 2000
Leadership	- Rector of Arab Open University-Oman: (Jan 2022-Present).
Experience	- Head of Electrical & Computer Engineering Department at SQU: (Jan 2019 –Dec 2021).
	- Assistant Head of Electrical & Computer Engineering Department at SQU – (May 2018 – Dec 2018).
	- Academic Program Chair: 2 ABET-Accredited undergraduate programs
	at SQU (4 Specializations in Electrical & Computer Engineering Program
	+ Mechatronics Engineering Program) + MSc. and PhD programs in
	Electrical & Computer Engineering at SQU (Jan 2019 – Dec 2021).
Professional	- IEEE Senior Member (Since 2017), Institute of Electrical and Electronics
Activities	Engineering, IEEE (USA).
	- Deputy chair: Power and Energy Society chapter - IEEE Oman Section (2018-2024).
	- Member of the Oman Society of Engineers.
	- Academic Program Reviewer: Ministry of Higher Education, Research
	and Innovation - Oman.
	- External Reviewer: Oman Authority for Academic Accreditation and
December 9	Quality Assurance of Education
Publications	of Renewable Energy in Power Systems
1 ublications	- Research Funds: 33 consultancy/research projects/grants with a total
	Fund of \$US 2.7+ million
	Citation Indices: (as of 14 Oct 2024)
	- Scopus: 81 documents, 3, 880 citations, h-index 17.
	https://www.scopus.com/authid/detail.uri?authorId=24079874000
	- Google Scholar: 115 documents, 6,353 citations, h-index 22.
	https://scholar.google.com/citations?hl=en&user=nZH9oqEAAAAJ
Academic	- Taught and Developed several undergraduate and postgraduate
Experience	courses in Electrical Engineering and Renewable Energy.
	- UG Student Supervision: 127 students in 38 Senior Design Projects.
	- PG Student Supervision: 5 MSc and 1 PhD Thesis.
	- Thesis Examination: 8 MSc and 4 PhD Thesis.
Other	- Chaired and member of numerous committees, sessions and teams.
Services	- Delivered numerous workshops/ speeches to wide range of audiences.
Awarus &	- Received Royal Commendation Order from His Majesty Sultan Haltnam
Recognition	DIN TARIK IN Appreciation for remarkable contributions to Research
	(2024). Listod in the Stanford University Tax 20/ world evicyticts (time of
	- Listeu in the Stanford University 10p 2% World Scientists 6 times.
	- Received numerous awards & appreciation letters/certificates.

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1. BACKGROUND INFORMATION

1.1. PERSONAL INFORMATION

NAME: MOHAMMED HAMDAN HAMED ALBADI

CURRENT ADDRESS: Arab Open University (AOU) – Oman PO Box 1596, PC 130, Muscat, Oman Tel: (00968) 2469 9304 Fax: (00968) 2469 9669 Email: m.badi@aou.edu.om Dr.Mohammed.Albadi@IEEE.org

CURRENT POSITION:	University Rector Arab Open University (AOU) – Oman
	(+4000 Students, +100 Staff)

1.2. EDUCATION

Ph.D in Electrical and Computer Engineering University of Waterloo, Ontario, Canada Date: 22 January 2010 Thesis title: Techno-economic Evaluation of Wind-based Distributed Generation. Supervisor: <u>Prof. Ehab El-Saadany</u>



• M.Sc. in Electrical Power Engineering,

Aachen University of Technology, Aachen, Germany Date: 6 October 2003 Thesis title: Evaluation of System Perturbations in Medium Voltage Networks Caused by Electric Welding Machines. Supervisor: <u>Prof. Hans-Jürgen Haubrich</u>



 B.Eng. in Electrical & Electronics Engineering Sultan Qaboos University, Muscat, Oman Date: 7 October 2000 Project title: Load Frequency Controller Designs for Interconnected Power Systems. Supervisor: Dr. Khaled Ellithy

1.3. PROFESSIONAL AFFILIATIONS

- Senior Member, Institute of Electrical and Electronics Engineering (IEEE: 80580021).
- Oman Society of Engineers (OSE: 2001920).

1.4. PREVIOUS EMPLOYM	IENT INFORMATION
1 Jan 2019 – 31 Dec 2021:	Head of Electrical and Computer Engineering
	Department
	Sultan Qaboos University, Muscat, Oman
	(+800 students, +60 Staff)
1 May – 31 Dec 2018:	Assistant Head of Electrical and Computer
	Engineering Department
	Sultan Qaboos University, Muscat, Oman
	(+800 students, +60 Staff)
1 Jun 2021 – 23 Apr 2022:	Professor
, ,	Department of Electrical and Computer Engineering
	Sultan Qaboos University, Muscat, Oman
19 May 2015 – 30 May 202	1: Associate Professor
<i>y</i>	Department of Electrical and Computer Engineering
	Sultan Qaboos University, Muscat, Oman
20 Jun 2018 – 19 Aug 2018:	Visiting Associate Professor
,	Department of Electrical and Computer Engineering
	University of Waterloo, Ontario, Canada
1 Aug 2016 – 31 Jul 2017:	Visiting Associate Professor
<i>.</i>	Department of Electrical and Computer Engineering
	University of Waterloo, Ontario, Canada
7 Mar 2010 – 18 May 2015:	Assistant Professor
-	Department of Electrical and Computer Engineering
	Sultan Qaboos University, Muscat, Oman
16 Oct 2003 – 6 Mar 2010:	Lecturer
	Department of Electrical and Computer Engineering
	Sultan Qaboos University, Muscat, Oman
1 Apr – 30 Sep 2003:	Intern
	WestEnergie und Verkehr GmbH
	Mühlenstraße 30, 41812 Erkelenz, Germany
24 Dec 2000 – 15 Oct 2003:	Demonstrator
	Department of Electrical and Computer Engineering
	Sultan Qaboos University, Muscat, Oman
5 Aug – 31 Dec 2000:	Drilling Engineer
-	Petroleum Development Oman, Muscat, Oman
	-

1.5. AWARDS & RECOGNITION

- 2024: Received Royal Commendation Order from His Majesty Sultan Haitham bin Tarik in appreciation for remarkable contributions to Research. 16 Jan 2024.
- 2024: A congratulatory letter from Her Excellency the Minister of Higher Education, Research and Innovation for receiving the Royal Commendation Order from His Majesty Sultan Haitham bin Tarik in appreciation for contributions to Research.18 Jan 2024.
- 2024: A congratulatory letter from Her Excellency the CEO of Oman Authority for Academic Accreditation and Quality Assurance of Education for receiving the Royal

Commendation Order from His Majesty Sultan Haitham bin Tarik in appreciation for contributions to Research. 21 Jan 2024.

- 2024: A congratulatory letter from Her Excellency the CEO of Oman Authority for Academic Accreditation and Quality Assurance of Education for receiving the Royal Commendation Order from His Majesty Sultan Haitham bin Tarik in appreciation for contributions to Research. 21 Jan 2024.
- 2023: A congratulatory letter from AOU President in the Arab World for being listed among the top 2% of the Stanford University's World's most influential scholars for the year 2022 (Single Year & Carrier) 9 Oct 2023.
- 2023: listed among the top 2% of the Stanford University's World's most influential scholars for the year 2022 (Single Year & Carrier)
- 2022: listed among the top 2% of the Stanford University's World's most influential scholars for the year 2021 (Single Year & Carrier)
- 2022: Certificate of Appreciation from the College of Engineering SQU for contributing to the Modernization of the Bachelor of Engineering in Electrical & Computer Engineering. 12 Nov 2022.
- 2022: Certificate of Appreciation from the College of Engineering SQU for Outstanding Efforts as HoD of ECED (2019-2021). May 2022.
- 2021: Recipient of Sultan Qaboos University recognition during SQU Day for excellence in research for the academic year 2020/2021 (Category: International Recognition). 2 May 2021.
- 2021: listed among the top 2% of the Stanford University's World's most influential scholars for the year 2020 (Single Year)
- 2021: Certificate of Appreciation from the Director of SQU Quality Assurance Office for chairing a team to conduct an Internal Auditing during the Administrative Quality Audit and Assessment (AQAA) cycle 2020/2021. May 2021.
- 2021: Certificate of Appreciation from the Director of SQU Quality Assurance Office for serving as an Internal Auditor in Administrative Quality Audit and Assessment (AQAA) cycle 2020-2021. 10 March 2021.
- 2020: Letter of Appreciation from SQU VC for being listed *among the top 2% world most influential researchers for the year 2019.* 2 Dec 2020.
- 2020: listed among the top 2% of the Stanford University's World's most influential scholars for the year 2019 (Single Year)
- 2020: Letter of Appreciation from the Dean for efforts and outstanding support during his term as a Dean. 29 June 2020.
- 2020: Recipient of Sultan Qaboos University recognition during SQU Day for excellence in research for the academic year 2019/2020 (Category: International Recognition). 3 May 2020.
- 2019: Certificate of appreciation from the College of Engineering for the efforts in establishing the Power Station and Transmission (PST) Lab. 2 May 2019.
- 2019: Recipient of Sultan Qaboos University Best Researcher Award during SQU Day for excellence in research for the academic year 2018/19. 2 May 2019.
- 2019: Certificate of Appreciation for participation in the scientific committee of the 2nd Student Research Conference (2nd SRC) held at Sultan Qaboos University, Muscat, 15-16 April 2019.
- 2019: Recipient of Best Paper Award for the paper "Economic Dispatch of Oman's Main Interconnected System in Presence of 500MW Solar PV Plant in Ibri" which

was presented in the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology, Amman, Jordan, 9-11 April, 2019.

- 2019: Certificate of Appreciation from Ministry of Education for serving as a Jury Member in PDO Renewable Energy Award for the academic year 2018/19. 31 March 2019.
- 2019: Certificate of Appreciation from Independent Learning Centre at SQU for contributions in "Solar Energy" workshop during 2018. 8 January 2019.
- 2018: Certificate of Appreciation from Centre for Community Service and Continuing Education for conducting a short course entitled "Hands-on Practical training on Solar PV Systems" during 11-15 March 2018.
- 2018: Letter of Appreciation from Independent Learning Centre at SQU for delivering the workshop "PV systems Design and Applications" during 24-26 Sep 2017.
- 2018: Letter of Appreciation from the Dean, College of Engineering at SQU, for supporting the participation of SQU students and staff in Oman Energy and Water conference and exhibition during April 30-April 2 2018. 7 Oct 2018.
- 2017: Recognition as a *Senior Member* in Institute of Electrical and Electronics Engineering (IEEE), 7 December 2017.
- 2017: Letter of Appreciation from the Dean, College of Engineering at SQU, for efforts in the Solar Car Parking project. 12 Oct 2017.
- 2017: Certificate of Appreciation from Korea Energy Economics Institute for contribution in the joint workshop between Oman and Korea on Energy Infrastructure. 26 Sept 2017.
- 2016: Certificate of Appreciation from HE Mohammed Al Mahrooqi, the Chairman of the Public Authority for Electricity and Water, for the contribution in "Oman Energy and Water Conference and Exhibition 2016" during 23-25May 2016. 29 May 2017.
- 2016: Recognized by IEEE Oman Section as Distinguished Volunteer. 27 April 2016
- 2016: Certificate of appreciation from Majaz Annual Gathering for community services. 30 Jan 2016.
- 2016: Certificate of Appreciation from Independent Learning Centre at SQU for delivering the workshop "Renewable Energy in Oman Status and Future Perspectives" during 7-10 Feb 2016.
- 2016: Certificate of Appreciation from Independent Learning Centre at SQU for serving as Renewable Energy Theme Coordinator during Feb-March 2016.
- 2016: Certificate of Appreciation from the Dean, College of Engineering at SQU, for active participation in the workshop "Introduction to CDIO" during 17-19 May 2016.
- 2016: Certificate of Appreciation from ICREGA16 committees, for chairing the special session "SS01: Renewable Energy Applications in Rural Areas" held in Belfort, France during 8-10 Feb 2016.
- 2016: Research article (J2. *A Summary of Demand Response in Electricity Markets*) featured in the ScienceDirect top 25 list of most downloaded articles. *Ranked* 2nd on the top 25 for Electric Power Systems Research January to December 2015.
- 2015: Research article (J2. *A Summary of Demand Response in Electricity Markets*) featured in the ScienceDirect top 25 list of most downloaded articles. *Ranked* 4th on the top 25 for Electric Power Systems Research January to December 2014.

- 2015: Letter of Appreciation from Independent Learning Centre at SQU for serving as the Acting Director and Renewable Energy Theme coordinator during summer 2015.
- 2015: Certificate of Appreciation from "Oman Energy and Water Conference and Exhibition 2015" organizers for excellent contribution in the conference.
- 2015: Certificate of Appreciation from the 8th IEEE GCC 2015 and the IEEE Oman Section for contribution in 8th IEEE GCC 2015 held in Muscat, Oman during 1-4 Feb 2015.
- 2015: Certificate of Appreciation from Department of Mass Communication, College of Arts and Social Sciences at SQU for contribution in the panel discussion titled Toward Sustainable and Safe Environment (نحو بيئة امنة و مستدامة). 12 May 2015.
- 2014: Certificate of Appreciation from Ministry of Defense for contribution in "Renewable Energy and its Effects on National Security" symposium.
- 2014: Letter of Appreciation from SQU Vice-Chancellor for contribution in "Renewable Energy and its Effects on National Security" symposium.
- 2014: Research article (J2. *A Summary of Demand Response in Electricity Markets*) featured in the ScienceDirect top 25 list of most downloaded articles. *Ranked 3rd* on the top 25 for Electric Power Systems Research January to December 2013.
- 2013: Research article (J2. *A Summary of Demand Response in Electricity Markets*) featured in the ScienceDirect top 25 list of most downloaded articles. *Ranked 5th* on the top 25 for Electric Power Systems Research January to December 2012.
- 2013: Majan Electricity Company (SAOC) Tistahil certificate for excellent performance to develop the company.
- 2013: Recipient of Sultan Qaboos University Award during SQU Day for Excellence in Scientific Publication (شهادة الأجادة في النشر العلمي) for the academic year 2012/2013.
- 2012: Research article (J2. *A Summary of Demand Response in Electricity Markets*) featured in the ScienceDirect top 25 list of most downloaded articles. *Ranked 7th* on the top 25 for Electric Power Systems Research January to December 2011.
- 2011: Research article (J6. Overview of Wind Power Intermittency Impacts on Power Systems) featured in the ScienceDirect top 25 list of most downloaded articles. Ranked 15th on the top 25 for Electric Power Systems Research – October 2009 -September 2010 academic year.
- 2008: Recipient of University of Waterloo Special Scholarship for outstanding student performance, Spring 2008 Semester for excellent performance.
- 2008: Recipient of University of Waterloo Graduate Scholarship for outstanding student performance, Fall & Winter Semesters of 2008 for excellent performance.
- 2006-2009: 4-year PhD scholarship from Sultan Qaboos University.
- 2001 2003: Recipient of MSc DAAD/ABB Scholarship, 1st October 2001 30st September 2003, at Aachen University of Technology, Aachen, Germany.
- 2001: Recipient of DAAD/ABB Scholarship to attend an intensive German language course, 1st August 2001 30th September 2001, Goethe Institute, Mannheim, Germany.
- 1.6. STUDENTS' AWARDS
 - 2022: MSc student (Tariq Al Abri) won the IEEE Oman Best Student Paper Award (3rd Place), 21 Dec 2022.

- 2022: PhD Graduate (Dr. Abdullah Al-Shereiqi) won the 2022 PhD Award in the CCED Oman Student Awards 2022 for the Advancement of Post Graduate Education. 22 Nov 2022.
- 2017: MSc Graduate (Abdullah Al-Shereiqi) won the Second OXY Oman Student Award for the Advancement of Post-Graduate Education in Oman. 28 Nov. 2017.
- 2016: FYP students (A. Al-Husseini, Z. Al-Abri & S. Al-Lamki) received "Best Presentation Award" in the Sixth National Symposium on Engineering Final Year Project at University of Nizwa. 4 May 2016.

1.7. CONTINUING EDUCATION

2024 "Duke Leadership Program"

Organizer: Duke University, The Fuqua School of Business Executive Education, Durham, North Carolina, USA. 25-30 August 2024.

2024 "Program Evaluator Candidate Training" Organizer: Accreditation Board for Engineering and Technology (ABET) Online Training: Feb-July 2024. Simulated Visit training at ABET HQ, Baltimore, Maryland, USA, June 3-4, 2024.
Cortified ABET Program Evaluator for 5 years staring June 12, 2024.

Certified ABET Program Evaluator for 5 years staring June 13, 2024.

- 2023 "Leadership and followership", an online 24-hour course explored leadership and followership in the workplace.
 Organizer: Open University, UK. Endorsed by: CPD Standards Office.
 Completed on 11 November 2023.
- 2022 Conference on Organizational Excellence (الإجادة المؤسسية) Organizer: Fikr Media Muscat, Oman 31 Oct-1 Nov 2022.
- 2020 Workshop on "Lean Approach" (منهجية لين) Organizer: Centre for Staff Development, Sultan Qaboos University, Muscat, Oman, 23-27 Feb 2020.
- 2019 "The Oman Academic Accreditation Authority Institutional Standards Assessment External Reviewers Training Workshop" Organizer: OAAA, Muscat, Oman, 25-26 Sep 2019.
- 2019 Workshop on "Specifying Objectives and Measuring Key Performance Indicators" (تحديد الأهداف و قياس مؤشرات الأداء) Organizer: Centre for Staff Development, Sultan Qaboos University, Salalah, Oman, 8-12 Sep 2019.
- 2019 Workshop on "Industrial and organizational psychology" (و التنظيمي) و التنظيمي Organizer: Centre for Staff Development Sultan Oaboos University

Organizer: Centre for Staff Development, Sultan Qaboos University, Muscat, Oman, 7-20 Feb 2019.

- 2018 Workshop on "The Complete Leadership Training Course" Organizer: Gulf Innovation for Consulting and Training, Grand Millennium, Muscat, Oman, 16-20 Dec 2018.
- 2018 Workshop on "Decision Making" (كيفية صنع القرار) Organizer: Centre for Staff Development, Sultan Qaboos University, Muscat, Oman, 12-13 Nov 2018.
- 2016 Workshop on "Introduction of CDIO initiative"

Organizer: College of Engineering, Sultan Qaboos University, Muscat, Oman, 17-19 May 2016.

- 2015 Workshop on "How to Teach Engineering Students Process Skills" Organizer: Sultan Qaboos University, Muscat, Oman, 26-28 May 2015.
- 2015 Workshop on "Power System Planning" Organizer: Department of Electrical and Computer Engineering Sultan Qaboos University, Muscat, Oman, 19-22 January 2015.
- 2014 Workshop on "Grid Connected and Off-grid Photovoltaics"
 Organizer: Green Energy Summer School, Renewable Academy (RENAC)
 Berlin Germany, 25-29 August 2014.
- 2014 Training Workshop on "Smart Grid" Organizer: Department of Electrical and Computer Engineering Sultan Qaboos University, Muscat, Oman, 15-19 June 2014.
- 2014 Workshop on "Electrical Power Quality" Organizer: Department of Electrical and Computer Engineering Sultan Qaboos University, Muscat, Oman, 8–12 June 2014.
- 2014 Seminar on "Wind Atlas & PV Roof Top Projects for Oman" Organizer: Public Authority of Electricity and Water (PAEW). City Seasons hotel, Muscat, Oman, 29 April 2014.
- 2014 Workshop on "Medium and High Voltage Switchgear" Organizer: Department of Electrical and Computer Engineering Sultan Qaboos University, Muscat, Oman, 9-13 February 2014.
- 2013 Workshop on "Renewable Energy Applications in Rural Areas" Organizer: United Nations Economic and Social Commission for Western Asia (ESCWA) in collaboration with Public Authority for Development of SMEs.

Tulip Inn hotel, Muscat, Oman, 17-19 June 2013.

- 2013 Workshop on "Substation Protection" Organizer: Department of Electrical and Computer Engineering Sultan Qaboos University, Muscat, Oman, 26-30 May 2013.
- 2013 Seminar on "Integration of Renewable in the grid and on Energy Efficiency and Demand Side management"
 Organizer: EU-GCC network in collaboration with Sultan Qaboos University
 Crown-Plaza hotel, Muscat, Oman, 14 May 2013.
- 2013 Workshop on "Energy Conservation Master Plan Study in the Power Sector"
 Organizer: Japan International Cooperation Agency (JICA) in collaboration with the Public Authority of Electricity and Water (PAEW). City Seasons hotel, Muscat, Oman, 3 February 2013.
- 2013 Workshop on "Power System Protection" Organizer: Department of Electrical and Computer Engineering Sultan Qaboos University, Muscat, Oman, 19-23 January 2013.
- 2012 Training Course on "Basic Medical First Aid" Organizer: Target Training Services in collaboration with Sultan Qaboos University Sultan Qaboos University, Muscat, Oman, 8 October 2012.
- 2012 Workshop on "Knowledge Management" Organizer: The Center for Staff Development (CSD) at SQU

Sultan Qaboos University, Muscat, Oman, 22–25 September 2012.

- 2012 Training Course on "Distribution Network Asset Management" Organizer: Singapore Cooperation Program in Collaboration with the Ministry of Foreign Affairs and Sultan Qaboos University Sultan Qaboos University, Muscat, Oman, 20–22 May 2012
- 2012 Workshop on "Pre-feasibility study on technical and economic assessment of nuclear energy viability in Oman long term energy mix" Organizer: International Atomic Energy Agency (IAEA) in collaboration with the Ministry of Foreign Affairs The Diplomatic Club, Muscat, Oman, 29 January 2012.
- 2011 Workshop on "Nuclear Power Consideration" Organizer: International Atomic Energy Agency (IAEA) in collaboration with the Ministry of Foreign Affairs The Diplomatic Club, Muscat, Oman, 17–18 October 2011.
- 2010 Workshop on "E-Learning Workshop: Moodle Basic" Organizer: The Center for Educational Technology (CET) at SQU Sultan Qaboos University, Muscat, Oman, 29-31 August 2010.
- 2010 Training Course on "Overview on Solar Technologies"
 Organizer: Solar Technology Centre in collaboration with the Public Authority of Electricity and Water (PAEW).
 Crown Plaza, Muscat, Oman, 10–14 April 2010.
- 2010 Workshop on "Sustainable Program Assessment" Organizer: Accreditation Board for Engineering and Technology (ABET) in collaboration with the College of Science at SQU Sultan Qaboos University, Muscat, Oman, 31 March 2010.

2. TEACHING & LEARNING

2.1 UNDERGRADUATE COURSES

A. Courses taught at SQU after PhD

#	Code	Title	Enrolment	Sections	Semester*
6.	ECCE5316	Renewable Power Generation	20	1	FL20
			15	1	FL19
			16	1	SP18
5.	ECCE5314	Special Topics in Power	19	1	FL15
4.	ECCE4316	Power System Analysis II	24	1	SP21
			36	1	SP18
			16	1	SP16
			42	1	FL15
			29	1	FL14
			8	1	SP14
			25	1	FL13
3.	ECCE4312	Power System Analysis I	15	1	SP19
			48	2	FL18
			30	1	FL17
			26	1	SP16
			47	2	SP15
			18	1	FL14
			32	1	SP14
			15	1	FL13
			36	1	SP13
			29	1	FL12
			32	1	SP12
2.	ECCE3352	Electrical Technology	38	1	SU14
			25	1	SP13
			23	1	FL12
			34	1	SU11
			22	1	FL10
			30	1	SU10
1.	ECCE3015	Electrical Engineering	35	1	SP12
		Fundamentals	75	2	FL11
			72	2	SP11
			73	2	FL10
Tot	tal number o	of Students & sections	1005	37	

* SU: Summer, FL: Fall, SP: Spring

B. Courses taught at SQU before PhD

#	Code	Title	Enrolment	Semester*
9.	ECCE3142	Signals and Systems	41	SU05
8.	ECCE5080	Engineering Seminar and Fieldwork	32	FL05
7.	ECCE4316	Electric Power System Lab	28	SP05
			37	SP01

6.	ECCE3016	Circuit Analysis II Lab	43	SP05
5.	ECCE5462	Electric Drives Lab	24	SP05
4.	ELEC5525	Advanced Machine, Power and Control	19	SP04
		lab	44	SP01
3.	ECCE4416	Linear Control Lab	27	FL04
2.	ECCE4466	Power Electronics Lab	43	FL04
1.	1. ELEC3000 Electro-technology Lab		11	SP01
Tot	tal number o	349		

* SU: Summer, FL: Fall, SP: Spring

2.2 SUPERVISION OF UNDERGRADUATE STUDENT PROJECTS

#	Project Title	YEAR	Students	Role
38.	Optimal Renewable Resources Mix for Energy Loss Minimization in an MZEC distribution network	2021- 2022	127. Imad Al Shukaili 126. Khalid Al Hajri 125. Abdallah Al Maqahami	Main Supervisor
37.	Designing Control Strategies for Micro grid	2020- 2021	127. Adham AlMajrafi 126. Malik Al Abri 125. Salim Al Rashdi 124. Yahya Al Mamari	Main Supervisor
36.	Short-circuit and harmonics study of a grid-connected PV system	2020- 2021	123. Ammar Saif Al Jardani 122. Saleh Mohamed Al Shuaibi 121. Sulaiman Mohamed Al Riyami	Co- supervisor
35.	Optimal Dispatch Strategy for Pumped-hydro Energy Storage Plant in MIS	2019- 2020	120. Abdullah Hamood Al Habsi 119. Al-Moatasem Hamood Al Rashdi 118. Salim Hamdan Al Kalbani	Main Supervisor
34.	Optimal PV Allocation & Minimal tap-Changing Transformers Achieving Best Distribution Voltage Profile & Minimum Losses	2019- 2020	117. Hamad Issa Al Shabibi 116. Al Mahanad Saif Al Shibli 115. Abdulah Ali Salim Al Rashdi	Co- supervisor
33.	Design of Home Automation based on Intelligent Load Management	2019- 2020	114. Ahmed Khamis Al Sinani 113. Mundher Abdullah Al Habsi 112. Saud Salim Hamed Aldhuhli	Co- supervisor
32.	Impacts of Solar PV Power on Distribution Systems	2018- 2019	111. Sulaiman Said Al Nassri 110. Marwan Ali Alghafri	Main Supervisor

			109. Abdulaziz Khamis Al	
			Khayari	
31.	Design a model for capacity	2018-	108. Omaima Ali Al	Main
	credit of solar PV power in MIS	2019	Shukaili	Supervisor
			107. Thuraiya Saif Al	
			Rashdia	
			106. Allau Abuul Aziz Al Diyami	
20	Design a method to mitigate	2010	Riyallii 105 Almothana Alawaad	Co
30.	the dust effects to the solar PV	2010-	104 Abdullah Alruziai	cu- supervisor
	modules	2017	103 Abdulah Almourashi	Super v1501
	modules		102. Ahmed Alhinai	
29.	Design of robust power system	2018-	101. Hamood Mohammed	Co-
	stabilizer with application to	2019	Al-Sheriyani	supervisor
	Barka II power station		100. Hadhifa Ahmed Al	
			Azakawi	
			99. Ali Nasib Al Qutaiti	
28.	Economic Dispatch in Presence	2017-	98. Musab Juma Al	Main
	Solar PV power in the Main	2018	Maharbi	Supervisor
	Interconnected System		97. Ahmed Mohammed Al	
			hosni	
			90. Monannieu Abuunan Al hairi	
27	Designing an off-grid PV	2017-	95 Mohammed AL	Main
27.	system for greenhouse in	2017	Marzougi	Supervisor
	Oman	-010	94. Mohammed AL-	Superviser
			Jafaari	
			93. Anas AL-Mukhaini	
26.	Transient Modelling of a	2017-	92. Murshid Amur Rashid	Co-
	Selected Area of MIS using	2018	Alhajri	supervisor
	MATLAB		91. Omer Khatim Al Hajri	
			90. Hamid Mohammed Al	
25	Damand Cide Manager 1	2016	Gnatri	<u>C</u> a
25.	Demand-Side Management by	2016-	89. Umar Juma Al Sukaiti	LO-
	Conditioning Systems	2017	86. Monannieu Junia Al Vagoubi	supervisor
	Conditioning Systems		87 Avman Abdullah Al	
			Mandhari	
24.	Design of Demand Sid	2016-	86. Fahad Abdullah Al	Co-
	Management for Load	2017	Hatmi	supervisor
	Frequency Control in a RAEC		85. Malik Sulaiman Al	-
	microgrid		Mamari	
			84. Maadh Said Al Farsi	
23.	Design of Power System	2016-	83. Al Mahnad Almamari	Co-
	Stabilizer for a Power Plant in	2017	82. Abdulazeez Alkasbi	supervisor
	the Omani main			
	interconnected system			

22.	Design of a PV System to Power A Greenhouse	2015- 2016	 81. Ahmed Mahfoodh Al Wahaibi 80. Ibrahim Bakhit Kashoob 79. Faisal Khalaf Al Subhi 78. Murshed Rashid Al Adawi 	Main Supervisor
21.	Voltage Flicker Measurements Evaluation and Mitigation in Rusail Industrial Area	2015- 2016	77. Aisha Mahmood Al Balushi 76. Marya Abdallah Al Balushi 75. Salma Salim Al Awaed	Main Supervisor
20.	Development of strategic plans and scenarios for the smart grid and their impact on Omani power sector	2015- 2016	74. Mohammed Aljabri 73. Ahmed Bani Araba 72. Amjad AlAmeri 71. Abdullah Al shehhi	Co- supervisor
19.	Designing a solar power supply kit for charging power bank portable charger	2015- 2016	70. Abdallah Al-Husseini 69. Zakaria Al-Abri 68. Salim Al-Lamki	Co- supervisor
18.	Design of an Economic Dispatch for the Main Interconnected System	2014- 2015	 67. Jaber Ali Wnai Al Hashmi 66. Haitham Mohammed Al Sineidi 65. Ahmed Hamdoon Al Qanubi 64. Omar Said Al Mashaikhi 	Main Supervisor
17.	Demand Side Management in a Power Distribution Network with Smart Meters	2014- 2015	 63. Abdullah Sultan Al Farsi 62. Khalifa Mubarak Al Kalbani 61. Ahmed Saif Al Farsi 60. Salim Musabah Al Saadi 	Co- supervisor
16.	Optimal allocation of solar PV systems in rural areas using genetic and PSO algorithms	2014- 2015	59. Ahmed Said Al Nabhani 58. Said Hilal Al Ismaili 57. Haitham Abu bakar Baalawi 56. Ahmed Sulaiman Al Alawi	Main Supervisor
15.	Designing a three-phase inverter to operate in grid- connected and grid- disconnected mode	2014- 2015	 55. Redha Mohamed Al Lawati 54. Salim Abdullah Al Kasbi 53. Mohammed Ali Alagbari 52. Majid Abdullah Al Maskari 	Co- supervisor

14.	Designing a 200MW grid connected PV Plant	2013- 2014	 51. Ibrahim Salim Al-Abri 50. Maadh Hamed Al- Skaiti 49. Sultan Mohamed Al- Wahaibi 48. Masoud Said Al-Abri 	Main Supervisor
13.	Measurement and Evaluation of Harmonics in MZEC network: Nizwa Industrial Area Case study	2013- 2014	47. Abdallah Ali Al Habsi 46. Faisal Ali Al Hashmi 45. Hamed Said Al Weheibi	Main Supervisor
12.	Designing a system to reduce the unbalanced load on transformers	2013- 2014	 44. Majid Khamis Al Hattali 43. Mohammed Sulaiman Al-mamari 42. Abdullah Mousa Al Sawafi 41. Hilal Ali Al Barashdi 	Co- supervisor
11.	Multi-criteria approach to evaluate renewable energy plants at selected sites in Oman	2013- 2014	40. Abdullah Hamdan Al Kahali 39. Hamed Saif Al Barhi 38. Younis Nabhan Al Nabhani 37. ALwarith Malek Al Bahri	Co- supervisor
10.	Technical Losses in Selected Rural Area Electricity Company Network	2012- 2013	 36. Ahmed Hamed Al Maghdri 35. Al Asaad Amer Al Maqrashi 34. Al Moataz Ali Al Jabri 33. Khalid Abdullah Al Azani 	Main Supervisor
9.	Design of a photovoltaic (PV) system for A Selected Rural Area Distribution Network	2012- 2013	 32. Qahtan Khamis AL- Aamri 31. Ahmed Abdullah Al- Mazidi 30. Majid Saif Al-Gafri 29. Nasser Ahmed Al- Mashaikhi 	Main Supervisor
8.	Design 50kW Solar PV Power System	2012- 2013	28. Abbas AbdulHusain Al Lawati 27. Issa Sulaiman Al Farsi 26. Kadhem Abdullah Al Ajmi	Main Supervisor
7.	Harmonic Filter Design in Presence of Distributed Generation	2012- 2013	 25. Mahmood Al-Abri 24. Mohammed Al-Hasni Salah 23. Al-Din Al-Shidi 22. Usama Al-Rasbi 	Co- supervisor

(2011		M :
6.	Evaluation of Harmonics and	2011-	21. Said Majid Al-Touqi	Main
	Filter Design for Heavy	2012	20. Maan Abdullah Al	Supervisor
	Industrial Loads		Salmi	
			19. Saoud Khalaf Al Jabri	
5.	Demand-Side Management	2011-	18. Ali Hamood Ali Al	Co-
	Capacity and Energy Saving	2012	Yaqoubi	supervisor
	Potential in MZEC		17. Sultan Salim Khalaf Al	
			Alawi	
			16. Bader Salim Amur Al	
			Alawi	
4.	Development Of A Cost Model	2011-	15. Badar Khalaf Al	Co-
	For Assessment Of Wind And	2012	Maawali	supervisor
	Solar Power In Oman		14. Saif Ali Nasser Al	
			Omairi	
			13. Mahmood Said Al-	
			Hilali	
			12. Ahmed Zayid Al	
			Busaidi	
3.	Optimal Size & Location of	2010-	11. Nasr Nasser Al-Abri	Main
	Renewable-based Distributed	2011	10. Younis Humood Al-	Supervisor
	Generation in Rural Area		Busafi	
	Electricity Company (RAECO)		9. Rashid Suliman Al-	
	Network Using Genetic		Sadairi	
	Algorithm (GA)			
2.	Designing a Model for Losses	2010-	8. Mohammed Ali Al-Abri	Co-
	Reduction Using Single-Phase	2011	7. Ali Hamed Al-Jahwari	supervisor
	Transformer		6. Ishaq Mohammed Al-	
			Lamki	
			5. Mohammed Ali Al-	
			Jahwari	
1.	Environmental Impact of	2010-	4. Hussain Ali Al-	Co-
	Large-Scale Renewable Energy	2011	Makhzoomi	supervisor
	Projects on the Envisaged		3. Majid Suliman Al-Kendi	
	Expansion in Power		2. Qais Hamed Al-	
	Generation in Main		Hadhrami	
	Interconnected System of		1. Salah Suliman Ambu-	
	Oman		Saidi	

2.3 GRADUATE COURSES

#	Course Code	Course Title	Enrolment	Sections	Semester*
3.	ECCE6335	Distributed Generation	8	1	FL21
2.	ECCE6315	Power System Analysis	4	1	SP20
			7	1	FL17
			3	1	SP15

1.	ECCE6213	Directed Studies	1	1	SP14
Total number of students			23	5	

* SU: Summer, FL: Fall, SP: Spring

2.4 PHD THESIS SUPERVISION

#	Thesis Title	YEAR	Student	Role
1.	Development of an Optimal Sizing Approach for a Hybrid Renewable Power Plant	2017- 2021	Abdullah Salim Humaid Al Shereiqi	Co- supervisor

2.5 PHD THESIS EXAMINATION

#	Thesis Title	Date/Role	Student	Institute
4	Design of Global and Maximum	2nd Oct 2023 /	Walid Ali Saif Al	ECED-
	Power Point Tracking	External	Abri	SQU
	Techniques for PV Systems	Examiner		
	Operating Under Partial			
	Shading Conditions			
3	An Adaptive Protection Scheme	4 th Sep 2023 /	Khalfan	ECED-
	for Transmission Line	External	Mohammed Al	SQU
	Connected with Renewable	Examiner	Kharusi	
	Energy Sources			
2.	Intelligent Control Design and	30 th Sep 2019 /	Myada Shadoul	ECED-
	Analysis for Microgrid Inverter	Preliminary	Mohamed Farah	SQU
		Examination		
		chair		
1.	Developing an adaptive	3 rd Sep 2019 /	Khalfan	ECED-
1	protection scheme for	Preliminary	Mohammed	SQU
1	transmission line connected	Examination	Nabahan Al	
	with renewable energy sources	chair	Kharousi	

2.1 MSC THESIS SUPERVISION

#	Thesis Title/status	YEAR	Student	Role
5.	Impacts of PV Systems Integration	2019/2021	Faiza Mohammed	Main
	on PDO-MAF Distribution		Said Al Harthi	Supervisor
	Network			
4.	Investigation of the Current and	2014-2015	Fahad Nasser	Main
	Future Economic Power Dispatch		Said Al Farsi	Supervisor
	in the MIS			
3.	Design of Nonlinear Control for	2017-2018	Mohamed Elfatih	Co-
	Multi-Machine Power Systems		Al Badawi	supervisor

2.	Evaluation and Analysis of New	2014-2015	Abdullah	Salim	Co-
	Structured Microgrids in Oman		Humaid	Al	supervisor
	Rural Areas Power System		Shereiqi		
1.	Design of load frequency control	2012-2013	Khalfan		Co-
	of Time-Delay Multi-Area		Mohammed	l Al	supervisor
	Interconnected Power Systems		Kharousi		

2.2 MSC THESIS EXAMINATION:

#	Thesis Title	Date/Role	Student	Institute
8	Impact of Renewable Energy on Power System Inertia and Rate of Change of Frequency (RoCoF) for the MIS system	25 Jan 2024/ External Examiner	Ahmed Sultan Al-Farsi	ECED- SQU
7	Design and Development of the Pricing Framework for Peer-To-Peer Energy Transactions	25 May 2023/ External Examiner	Tariq Al Abri	ECED- SQU
6.	Feasibility Study of A Grid- Interactive Renewable Energy System for a Large Complex	7 th Jan 2020/ Internal Examiner	Issa Yahya Mohammed Al- kharusi	ECED- SQU
5.	Design of Wind Farm for Daleel Oil Field Microgrid	30 th Sep 2019/ Internal Examiner	Walid Ali Saif Al Abri	ECED- SQU
4.	Membrane Distillation for Produced Water Treatment	13 th Sep 2018 / Examination Chair	Moza Mohammed Al Salmi	PCED- SQU
3.	Flood Risk Assessment of Wadi Mayh Catchment Area in Muscat Governorate	17 th Jan 2018 / Examination Chair	Fathiya Sultan Al Azri	CAED- SQU
2.	Polymer Effect on Drop Size Distribution of Oily Water Produced from Marmul polymer Flooding	30 th Jun 2015/ Examination Chair	Safa Said Al Bakalani	PECD- SQU
1.	Designing Testing and implementation of Single Phase Pipeline Network Hydraulic Analysis Program	30 th Nov 2014/ Examination Chair	Malik Said Al- Shereiqi	MIED- SQU

2.3 NEW CENTERS, RESEARCH CHAIRS & PROGRAM PROPOSALS (At SQU)

- A. Al-Badi, N. Al-Rawahi, N. Hosseinzadah, N. Al-Azri, S. Rudyk, A. Malik, **M. H. Albadi**, S. Al-Saadi, C. Denman, S. Nandagopal, "Sustainable Energy Research Center" Approved by SQU University Council and established in June 2017.
- A. Al-Badi, N. Al-Azri, **M. H. Albadi** and B. Jibril "Research Chair in Renewable Energy Related to Oman at Sultan Qaboos University" submitted and presented to The Research Council, Feb. 2014

- A. Al-Badi, N. Al-Rawahi, N. Hosseinzadah, N. Al-Azri, A. Malik, S. Al-Saadi, M. Baawain, A. Al Maashri, H. Abdellatif, A. Al-Saidy, **M. H. Albadi**, "Master Program in Sustainable Energy" submitted to SQU Administration, March 2017.
- A. Al-Badi, **M. H. Albadi**, R. Al-Abri "SQU Solar Car Park", attracted around 216,000 OMR from JACOBS Oman to build the first solar car park for College of Engineering, contract was signed in July 2017.

2.4 COURSES DEVELOPMENT

(At SQU)

- Economic Operations of Power Systems (ECCE6317): Developed the course syllabus and material. The course was approved by the ECE department board in SP17.
- Renewable Power generation (ECCE5316): Developed the course syllabus and material. The course was approved by the ECE department board in FL16 and offered for the first time in SP18. A course website was also created.
- Special Topics in Power Renewable Power generation (ECCE5314): Developed a course syllabus and material. The course was offered for the first time in FL15. A course website was also created.
- Power Systems Analysis (ECCE6315): Developed and updated the material of course. This includes modifying the course material and creating a course website.
- Smart Grid (ECCE5315): participated in the development of this new course. The course was approved by the ECE department board in FL14 and offered for the first time in SP15.
- Renewable Energy (ENGR6920): participated in developing this new postgraduate course through preparing the course material. The course was offered for the first time in the College of Engineering in FL12.
- Power Systems Analysis I (ECCE4312): Developed and updated the material of course. This includes but not limited to the addition of material about "Electricity Sector in the Sultanate of Oman: An Overview" and creating a course website.
- Power Systems Analysis II (ECCE4316): Developed and updated the material of course. This includes modifying the course material and creating a course website.
- Electrical Technology (ECCE3352): Developed and updated the material of course. Among developments in this course is the creation of a new unit about "Engineering Ethics" to address the absence of this topic in the ECE program degree plan. A course website was also created.
- Seminar and Fieldwork (ECCE5080): Developed the course in FL05.

2.5 LABORATORY DEVELOPMENT (At SQU)

 Power Station and Transmission (PST) Lab: Served as SQU focal person in (5) Collaborative industrial grants worth of (OMR 285,000 ≈ US\$735,300) that resulted in establishing the Power Station and Transmission (PST) Lab that was installed in February 2017 and officially inaugurated in April 2018. Besides securing the funds follow-up, my role included participated in reviewing offers from relevant manufacturers to ensure that the lab equipment meet the department requirements through compiling experiments from different relevant courses and checking the equipment capability. This new Lab can be used for education, training, and teaching and research purposes.

- Renewable Power generation (ECCE5316): Developed a lab manual for this new course. The manual included 3 experiments: Lab#1: Characteristics of solar PV modules, Lab#2: Impact of partial shading on solar PV modules, and Lab#3: Impact of tilt angle on solar PV modules. The course was offered for the first time in SP18.
- Power Systems Analysis (ECCE6315): Developed a tutorial for using Power World Simulator to Solve Power Flow problems. This tutorial was used for the first time in FL17 course offering.
- Power Electronics (ECCE4466): Developed a new Power Electronics (ECCE4466) Lab manual in FL04. This includes writing procedures for new experiments and preparing the pre lab material. Instructor manual that contains all experimental results and pre lab solution was also prepared.
- Electric Power System (ELEC4825): Development of Lab manual in SP05. This includes writing procedures for a new experiment about synchronization and real/reactive power control in the machine lab and preparing the pre lab material. This initiative was to solve the problem of equipment failure in the Power Simulator unit.
- Linear Control (ECCE4416): Developed Lab manual in FL04. This includes adding new sections in the experiments to verify experimental results using simulation. Solution manual was also prepared.
- Electrical Engineering Fundamentals (ECCE3015): Modification of the course Lab Manual in FL11.

2.6 STUDENT ADVISEMENT (At SQU)

- January 2019 to Dec 2021 (HoD): Meeting and advising ECE program probation students and overseeing the implementation of all matters related academic advising of students.
- May 2018-Decmber 2018 (Assistant HoD): coordinating and following-up with students' academic affairs and assisting HoD in overseeing the implementation of all matters related academic advising of students.
- September 2017 September 2018: Academic Advisor to 16 students from 2015 cohort.
- March 2010 July 2016: Academic Advisor to 30 students from 2009 cohort.

2.7 ORGANIZING AND SUPERVISING FIELD TRIPS (At SQU)

- 21 April 2019: Field Trip to the Load Dispatch Centre
- 15 November 2018: Field Trip to ACWA Power Barka (Barka I) Power Plant
- 1 November 2018: Field Trip to the Load Dispatch Centre
- 16 April 2018: Field Trip to SQU Solar PV Parking Project
- 11 April 2018: Field Trip to the Load Dispatch Centre
- 17 December 2017: Field Trip to MSN Barka (Barka II) Power Plant
- 20 April 2016: Field Trip to the Load Dispatch Centre
- 18 April 2016: Field Trip to Rusail Power Plant
- 19 November 2015: Field Trip to the Botanic Garden PV System
- 26 October 2015: Field Trip to the Engineering Solar PV System
- 24 December 2014: Field Trip to the VOLTAMP Transformers Oman
- 22 December 2014: Field Trip to the Load Dispatch Centre
- 5 May 2014: Field Trip to ACWA Power Barka (Barka I) Power Plant
- 25 December 2013: Field Trip to the Load Dispatch Centre
- 24 April 2013: Field Trip to Rusail Power Plant
- 19 December 2012: Field Trip to the Load Dispatch Centre
- 18 April 2012: Field Trip to ACWA Power Barka (Barka I) Power Plant

2.8 ADMINISTRATION OF MULTI-SECTION COURSES (At SQU)

• Served as course coordinator for multi section courses numerous times.

#	Course Code	Year/Semester	Sections	Students
5.	ECCE4312	2017/Fall	2	50
4.	ECCE3352	2014/ Summer	2	70
3.	ECCE3015	2011 / Fall	3	108
2.	ECCE3015	2011 / Spring	3	104
1.	ECCE3015	2010 / Fall	3	103
Total		13	435	

3. SCHOLARSHIP

- 3.1. RESEARCH OUTPUT INDICATORS
- A. Google Scholar Author Profile Summary as of 14 Oct 2024: http://scholar.google.ca/citations?user=nZH9oqEAAAAJ&hl=en

Documents	115
Citations	6,353
h-index	22
i10-index	46

B. Scopus Author Profile Summary as of 14 Oct 2024:

http://www.scopus.com/authid/detail.url?authorId=24079874000

Documents	81
Citations	3,880
h-index	17

- C. ORCID: <u>www.orcid.org/0000-0002-0652-7829</u>
- D. Web of Science: https://www.webofscience.com/wos/author/record/828563
- E. Research Gate: https://www.researchgate.net/profile/Mohammed Albadi
- F. Academia: https://squ.academia.edu/MohammedAlbadi
- G. AD Scientific Index: <u>https://www.adscientificindex.com/scientist/mohammed-h-albadi/453606</u>

3.2. PUBLICATIONS IN REFEREED JOURNALS

- J54 Md. Shadman Abid; R. Ahshan, R. Al Abri; A. Al-Badi; **M. Albadi**, Techno-economic and environmental assessment of renewable energy sources, virtual synchronous generators, and electric vehicle charging stations in microgrids, *Applied Energy*, Vol. 353, January 2024.
- J53 R. Ahshan, A. Al-Badi, R. Al-Abri, M Shadoul, M. Albadi, "Multi-objective Optimal Planning of Virtual Synchronous Generators in Microgrids with Integrated Renewable Energy Sources", *IEEE Access*, Vol. 11, pp. 65443-65456, June 2023. doi: 10.1109/ACCESS.2023.3289813
- J52. **M. Albadi**, A. Malik, A. Al Badi, S. Al Rawahi, M. Al Housni, M. Al Shabibi, "Exploring the Impacts of COVID-19 Pandemic on Oman's Electricity Sector", The Journal of Engineering Research (TJER), Vol. 19, No. 2, pp. 95-105, 2023.
- J51 M. Shadoul, R. Ahshan, R. Al Abri, A. Al-Badi, **M. Albad**i, M. Jamil, "A comprehensive review on virtual synchronous generator: topologies, control orders and techniques, energy storages, and applications", *Energies*, Nov 2022.

- J50 T. Al-Abri and **M. Albadi**, "Impacts of Electric Vehicles on Distribution System Planning and Operation", *Renewable Energy and Power Quality Journal (REPQJ)*, ISSN-2172-038X, No.20, September 2022.
- J49 M. Almamari and **M. Albadi**, "Impacts of Distributed Generation on Power System Protection", *Renewable Energy and Power Quality Journal (REPQJ)*, ISSN-2172-038X, No.20, September 2022.
- J48 A. Al-Shereiqi, A. Al-Hinai, **M. Albadi**, R. Al-Abri, "Optimal Sizing of Hybrid Wind-Solar Power Systems to Suppress Output Fluctuation", *Energies*, Vol 14, no. 17: 5377, 2021.
- J47 K. Alawasa, R. Al Abri, A. Al Hinai, **M. Albadi**, A. Al-Badi, "Experimental Study on the Effect of Dust Deposition on a Car Park Photovoltaic System with Different Cleaning Cycles", *Sustainability*, Vol. 13, No. 14, pp. 1-16, 2021.
- J46 F. Al-Harthi, M Albadi, R Al-Abri, A Al-Badi, Power Quality Impacts of PV Systems Integration on Petroleum Development Oman (PDO)-Mina Al-Fahal (MAF) Distribution Network, *Renewable Energy and Power Quality Journal (REPQJ)*, ISSN-2172-038X, No.19, September 2021.
- J45. M. Bakhtvar, A. Al-Hinai, M. El Moursi, **M. Albadi**, "A Vision of Flexible Dispatchable Hybrid Solar-Wind-Energy Storage Power Plan", *IET Renewable Power Generation*. Vol 15, No. 8, pp. 1848-1860, 2021.
- J44. A. Al Shereiqi, B. Mohandes, A. Al-Hinai, M. Bakhtvar, R. Al-Abri, M.S. El Moursi, and **M. Albadi**, "Co-optimization of Wind Farm Micro-Siting and Cabling Layouts", *IET Renewable Power Generation*, Vol. 15, No. 8, pp. 848-1860, 2021.
- J43. E. Bayoumi, H. M Soliman, **M. Albadi**, M. Soliman "Invariant Set Design of Decentralized Control for Islanded microgrids under plug-and-play operation", *International Journal of Electrical Power and Energy Systems*, Vol. 128, June 2021.
- J42. Al-Shereiqi, A. Al-Hinai, **M. Albadi** and R. Al-Abri, "Optimal Sizing of a Hybrid Wind-Photovoltaic-Battery Plant to Mitigate Output Fluctuations in a Grid-connected System", *Energies*, Vol. 13, No. 11, pp. 1-21, 2020.
- J41. N. A. Mohammed and **M. H. Albadi**, "Demand Response in Electricity Generation Planning", *The Electricity Journal*, Vol. 33, No. 7, pp. 1-9, 2020.
- J40. **M. Albadi**, A. Al-Badi, R. Ghorbani, A. Al-Hinai, R. Al-Abri, "Enhancing Electricity Supply Mix in Oman with Energy Storage Systems: A Case Study", *International Journal of Sustainable Engineering*, pp. 1-10, 2020, Published online: 03 Jun 2020.
- J39. H. Soliman, A. Elhaffar, M. Albadi, "Optimal PV Allocation & Minimal Tap-Changing Transformers Achieving Best Distribution Voltage Profile & Minimum Losses in Active Distribution Networks", *Electrical Science and Engineering*. Vol. 1, No. 2, pp. 32-36, 2019.
- J38. H. Soliman, M. Albadi, H. Al-Sheriyani, H. Al-Azakawi. A. Al-Qutaiti, "Roust power system stabilizer design using Kharitonov's theorem: A case study", *Electrical Science and Engineering*. Vol. 1, No. 2, pp. 26-31, 2019.
- J37. **M. H. Albadi**, "Solar PV Power Intermittency and its Impacts on Power Systems an Overview", *The Journal of Engineering Research*, Vol. 16, No. 2, pp. 142-150, 2019.

- J36. H. M. Soliman, M. H. Albadi, A. Al-Maamari, A. Al-Kasbi, "Power System Stabilizer Design Using Notch-Filter – Barka II (Oman) Case Study", *The Journal of Engineering Research*, Vol. 16, No. 2, pp. 87-95, 2019.
- J35. A. Moawwad, E. El-Saadany, M. El Moursi, **M. H. Albadi**, "Critical Loading Characterization for MTDC Converters using Trajectory Sensitivity Analysis", *IEEE Transactions on Power Delivery*, Vol. 33, pp. 1962-1972, August 2018.
- J34. **M. H. Albadi**, Y. M. El-Rayani, E. F. El-Saadany, H. A. Al-Riyami, "Impact of Solar Power Projects on LMP and Transmission Losses in Oman", *Sustainable Energy Technologies and Assessments,* Vol. 27, pp. 141–149, 2018.
- J33. M. H. Albadi, A. H. Al Maghdri, A. S. Al Hinai, E. F. El-Saadany, M. S. Awladthani, S. Al Hinai, A. Al Jabri, K. Al Azani and A. Al Maqrashi, "Technical Loss Reduction in Rural Areas The Case of Saih Al Khairat", *The Journal of Engineering Research*, Vol. 15, No. 2, pp. 102-113, December 2018.
- J32. N. Hosseinzadeh, A. Ashkezari, A. Chebli, and M. Albadi, "Development of an Enterprise Geographic Information System (GIS) Integration with Smart Grid", *Sustainable Energy, Grids and Networks*, Vol. 14, pp. 25–34, June 2018.
- J31. N. Hosseinzadeh, A. Al-Shereiqi, **M. Albadi**, and A. Al-Hinai, "Constructing a Multi-Microgrid with the Inclusion of Renewable Energy in Oman's Rural Power System", *The Journal of Engineering Research*, Vol. 15, No. 1, pp. 61-72, 2018.
- J30. M.H. Albadi, F.N. Al Farsi, N. Hosseinzadeh, A. H. Al Badi, "Effect of Considering Transmission Losses in Economic Dispatch – A Case Study of Oman's Main Interconnected System", *The Journal of Engineering Research*, Vol. 15, No. 1, pp. 1-13, 2018.
- J29. A. S. Malik, M. H. Albadi, A. Bani-Araba, A. Al-Ameri and A. Al Shehhi, "Smart Grid Scenarios and their Impact on Strategic Plan – A Case Study of Omani Power Sector", Sustainable Cities and Society, Vol. 37, pp. 213-221, 2018.
- J28. M. H. Albadi, H. M. Soliman, M. Awlad Thani, A. Al-Alawi, S. Al-Ismaili, A. Al-Nabhani, H. Baalawi, "Optimal Allocation of PV Systems to Minimize Losses in Distribution Networks Using GA and PSO—Masirah Island Case Study," *Journal* of Electrical Systems", Vol. 13, No. 4, pp. 678-688, 2017.
- J27. M. H. Albadi, "Electricity Sector in Oman After 10 Years of Reform: Status, Trends, and Future Perspectives", *The Electricity Journal*, Vol. 30, No. 7, pp. 23-30, August–September 2017.
- J26. M. H. Albadi, A. S. Al Busaidi, E. F. El Saadany, "Seawater PHES to Facilitate Wind Power Integration in Dry Coastal Areas – Duqm Case Study", *International Journal of Renewable Energy Research*", Vol.7, No.3, pp. 1370-1382, 2017.
- J25. H. A Kazem, M. H. Albadi, A. H. Al-Waeli, A. H. Al-Busaidi, "Techno-economic feasibility analysis of 1 MW photovoltaic grid connected system in Oman", *Case Studies in Thermal Engineering*, Vol 10, pp. 131-141, June 2017.
- J24. H. Yousef, H. M. Soliman and M. H. Albadi, "Nonlinear Power System Excitation Control Using Adaptive Wavelet Networks", *Neurocomputing*, Vol. 230, pp. 302– 311, March 2017.

- J23. R. S. Al Abri, M. H. Albadi, M. H. Al Abri, U. K. Al Rasbi, M. H. Al Hasni, S. M. Al Shidi, Impact of Harmonic Resonance and V-THD in Sohar Industrial Port-C Substation, International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, Vol.10, No.2, 2016.
- J22. M. H. Albadi, N. Al-Mashaikhi, S. Al Hinai, R. Al-Abri, A Al-Hinai, Q. Al-Aamri, A. Al-Mazidi and M. Al-Gafri, Loss Reduction in Isolated Rural Area Distribution Network Using Photovoltaic System, *The Journal of Engineering Research*, Vol. 12, No. 2, pp. 51-59, December 2015.
- J21. M. H. Albadi, R. S. Al Abri, M. I. Masoud, K. H. Al Saidi, A. S. Al Busaidi, A. Al Lawati, K. Al Ajmi, I. Al Farsi, Design of a 50 kW solar PV rooftop system, *International Journal of Smart Grid and Clean Energy*, Vol. 3, No. 4, pp. 401-409, October 2014.
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- J10. M. H. Albadi, A. S. Al Hinai, A. H. Al-Badi, M. S. Al Riyami, S. M. Al Hinai, R. S Al Abri, Measurements and Evaluation of Flicker in High Voltage Networks, *Renewable Energy and Power Quality Journal (REPQJ)*, ISSN-2172-038X, No.12, pp. 1-4, April 2014.
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3.6. WHITE PAPERS

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- WP1. **M. Albadi**, A. Al-Badi, R. Al-Abri, SQU PV Parking Proposal, submitted to H.E. The Vice Chancellor of Sultan Qaboos University. pp. 1-12, July 2015.

3.7. TECHNICAL REPORTS

TR16. **Mohammed Al Badi**, Rashid Al Abri, Razzaqul Ahshan, Amer Al-Hinai, Nasser Hosseinzadeh, Kaamran Raahemifar, Moustafa Eissa, Abdelsalam El Haffar, Abbas Teirab, Yousuf Al-Shuaili, "Controlled Microgrid of Renewable Energy Systems: SQU Pilot Project", for the Mistry of Higher Education, Research and Innovation (BFP/RGP/EI/18/072), Feb 2022.

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- TR13. Rashid Al-Abri, Mohammed Al Badi, Abdelsalam Elhaffar, "WAMS-based PMUs Study for Oman Transmission System", for Oman Electricity Transmission Company, pp 1-164, September 2019.
- TR12. Shahid Hasan, Turki Al-Aqeel, Abdullah Al-Badi, Yagyavalk Bhatt, and **Mohammed Al-Badi**. 2019. Oman Electricity Sector: Features, Challenges and Opportunities for Market Integration. KS-2019-DP61. Riyadh: KAPSARC. DOI: https://doi.org/10.30573/KS--2019-DP61.
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 A. Chebli, Transition of Enterprises to Smart Grid, for The Research Council (TRC), ORG/SQU/E1/11/009, pp. 1-96, May 2016.
- TR8. Rashid Al Abri, **Mohammed Al Badi**, Abdullah Al Badi, Performance Comparison of PV System Before and After the Installation of SM-255PC8 modules, Submitted to SQU Eco-house team. pp. 1-8, June 2016.
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- TR6. M. H. Albadi, A. H. Al-Badi and A. S Malik, "Combined Renewable and Pumped Hydro Storage in Duqm- A Review of Assumptions", for Rent-a-port Energy, CR/ENG/ECED/15/01, pp. 1-37, May 2015.
- TR5. **M. H. Albadi**, A. H. Al-Badi and S. M. Al Hinai, "Impact of Heavy Industrial Consumers on OETC Grid", for Oman Electricity Transmission Company (OETC), CR/ENG/ECED/11/06, pp. 1-161, Jan 2013.
- TR4. A. S. Al-Hinai, E. Feilat, **M. H. Albadi**, A. H. Al-Badi, H. Al-Nassri, M. Al-Qayudhi and Y. Al-Shamli, "PDO Power System Losses Optimization Study", For

Petroleum Development of Oman (PDO), CR/ENG/ECED/11/01, pp. 1-60, Feb 2012.

- TR3. A. H. Al-Badi, A. S. Al-Hinai and **M. H. Albadi**, "Study of Installation of 1-phase transformers in specific locations of MJEC's network", for Majan Electricity Company, CR/ENG/ECED/11/02, pp. 1-48, August 2011.
- TR2. A. H. Al-Badi, A. S. Al-Hinai and M. H. Albadi, "Effect of 220 kV Power line from Sur Power Station to Sur Grid Station on a buried gas pipeline", For Oman Electricity Transmission Company (OETC), CR/ENG/ECED/11/03, pp. 1-31, June 2011.
- TR1. K. A. Ellithy and **M. H. Albadi**, "Measurements for Harmonics at MMPS Substation-2 Expansion Project", PDO, Final Report, Oct. 2004.

#	Title	Budget	Code	Sponsor	Role*
RC15.	Energy Audit	OMR 44,340	CR/ENG/	EJAAD	Co-PI
		(≈US\$	ECED/19		
		114,840)	/04		
RC14.	Design and Installation of a	OMR 1,240	CR/ENG/	Nafath	Co-I
	Grid-connected PV System - I	(≈US\$	ECED/20	Renewable	
		2,900)	/01	Energy LLC	
RC13.	Design and Installation of a	OMR 2,000	CR/DVC/	ONEIC	Co-I
	Grid-connected PV System -	(≈US\$	SERC/20/		
	II	5,200)	01		
RC12.	Design of sustainable energy	OMR 20,000	CR/ENG/	Government of	Co-I
	system for training center	(≈US\$	CAED/19	Oman	
	building in Muscat	51,600)	/04		
RC11.	WAMS based PMUs for Oman	OMR 9,500	CR/ENG/	Oman	Co-I
	Transmission System	(≈US\$	ECED/17	Electricity	
	Company	24,510)	/02	Transmission	
				Company	
				(OETC)	
RC10.	Design and Application of a	OMR 5250	CR/DVC/	Nafath	Co-I
	grid-connected PV System	(≈US\$	SERC/19/	Renewable	
		13,545)	02	Energy LLC	
RC9.	PV System Design and	OMR 2950	CR/DVC/	Nafath	Co-I
	Application	(≈US\$	SERC/18/	Renewable	
		7,610)	02	Energy LLC	
RC8.	Advanced Power System	OMR 8,000	CR/ENG/	Rural Areas	PI
	Studies for Rural Areas	(≈US\$	ECED/16	Electricity	
	Electricity Company	20,640)	/01	Company	
RC7.	Fundamentals of Power	OMR 8,000	CR/ENG/	Rural Areas	PI
	System Studies for Rural	(≈US\$	ECED/16	Electricity	
	Areas Electricity Company	20,640)	/02	Company	

3.8. RESEARCH CONTRACTS AND CONSULTANCIES

Combined Renewable and	OMR 4,000	CR/ENG/	Rent-A-Port	PI
Pumped Hydro Storage in	(≈US\$	ECED/15	Energy,	
Duqm	10,320)	/01	Belgium	
Impact of heavy industrial	OMR 16,500	CR/ENG/	Oman	PI
consumers on OETC Grid	(≈US\$	ECED/11	Electricity	
	42,570)	/06	Transmission	
		,	Company	
			(OETC)	
PDO Power System Losses	OMR 38,610	CR/ENG/	Petroleum	Co-I
Optimization Study	(≈US\$	ECED/11	Development of	
	100,000)	/01	Oman (PDO)	
Study of Installation of 1-	OMR 7,500	CR/ENG/	Majan	Co-I
phase transformers in	(≈US\$	ECED/11	Electricity	
specific locations of MJEC's	19,350)	/02	Company	
network				
Effect of 220 kV Power line	OMR 12,000	CR/ENG/	Oman	Co-I
from Sur Power Station to	(≈US\$	ECED/11	Electricity	
Sur Grid Station on a buried	30,960)	/03	Transmission	
gas pipeline	-		Company	
			(OETC)	
Measurements for	OMR 1,154	AS/ENG/	Petroleum	Co-I
Harmonics at MMPS	(≈US\$	ECED/04	Development	
Substation-2 Expansion	2,980)	/04	Oman (PDO	
Project				
	Combined Renewable and Pumped Hydro Storage in Duqm Impact of heavy industrial consumers on OETC Grid PDO Power System Losses Optimization Study Study of Installation of 1- phase transformers in specific locations of MJEC's network Effect of 220 kV Power line from Sur Power Station to Sur Grid Station on a buried gas pipeline Measurements for Harmonics at MMPS Substation-2 Expansion Project	Combined Renewable and Pumped Hydro Storage in DuqmOMR 4,000 (≈US\$ 10,320)Impact of heavy industrial consumers on OETC GridOMR 16,500 (≈US\$ 42,570)PDO Power System Losses Optimization StudyOMR 38,610 (≈US\$ 100,000)Study of Installation of 1- phase transformers in specific locations of MJEC's networkOMR 7,500 (≈US\$ 19,350)Effect of 220 kV Power line from Sur Power Station to Sur Grid Station on a buried gas pipelineOMR 12,000 (≈US\$ 19,350)Measurements Harmonics at Substation-2 ProjectOMR 1,154 (≈US\$	Combined Renewable and Pumped Hydro Storage in DuqmOMR 4,000 (≈US\$CR/ENG/ ECED/15 10,320)Impact of heavy industrial consumers on OETC GridOMR 16,500 (≈US\$CR/ENG/ ECED/11 42,570)PDO Power System Losses Optimization StudyOMR 38,610 (≈US\$CR/ENG/ ECED/11 100,000)Study of Installation of 1- phase transformers in specific locations of MJEC's networkOMR 12,000 (≈US\$CR/ENG/ ECED/11 00MR 7,500Effect of 220 kV Power line from Sur Power Station to Sur Grid Station on a buried gas pipelineOMR 1,154 (≈US\$CR/ENG/ ECED/11 003Measurements Harmonics at Substation-2 Projectfor Expansion 2,980)OMR 1,154 (∞US\$AS/ENG/ ECED/04 2,980)	Combined Renewable and Pumped Hydro Storage in DuqmOMR 4,000 (≈US\$ 10,320)CR/ENG/ ECED/15 (≈US\$ 10,320)Rent-A-Port Energy, BelgiumImpact of heavy industrial consumers on OETC GridOMR 16,500 (≈US\$ 42,570)CR/ENG/ (CR/ENG/ 06Oman ElectricityPDO Power System Losses Optimization StudyOMR 38,610 (≈US\$ (≈US\$ (≈US\$CR/ENG/ ECED/11 Development of Oman (PDO)Petroleum Development of Oman (PDO)Study of Installation of 1- phase transformers in specific locations of MJEC's Sur Grid Station on a buried gas pipelineOMR 12,000 (≈US\$ (≈US\$CR/ENG/ ECED/11 Development of OMR 7,500 (≈US\$ CR/ENG/ ECED/11 Electricity Company (OETC)Measurements Harmonics at MMPS Substation-2 ExpansionOMR 1,154 (≈US\$AS/ENG/ ECED/04 Development OMAR 1,154 CR/ENG/ OMAR 1,154Petroleum Development Oman (PDO)

*PI: Principal Investigator, Co-PI: Co-Principal Investigator; Co-I: Co-Investigator, M: Mentor, C: Completed, IP: In progress

3.9. RESEARCH GRANTS

#	Title	Budget	Code	Sponsor	Role*
RG11.	Design and Implementation	OMR 30,000	CL/SQU-	Sultan Qaboos	Co-I
	of an Intelligent Dispatch	(≈US\$	QU/SERC	University and	
	Engine for Hybrid	77,400)	/22/01	Qatar	
	Renewable Power Stations			University	
RG10.	Feasibility study of a two-	OMR 5,750	IG/DVC/	Sultan Qaboos	Co-I
	stage hybrid geothermal		WRC/22/	University	
	production from fault-	(≈US\$	02	(Internal Grant)	
	blocked reservoirs	14,800)			
	in North Oman				
RG9.	System Inertia Enhanced-	OMR 8,750	IG/DVC/S	Sultan Qaboos	Co-I
	Based Control System		ERC/22/0	University	
	Development for Microgrid	(≈US\$	1	(Internal Grant)	
	Applications	22,600)			
RG8.	Controlled Microgrid of	OMR 20,000	RC/RG-	The Research	PI
	Renewable Energy Systems		ENG/ECE	Council (TRC)	
		(≈US\$	D/18/01		
		51,800)			

DC7		OMD 20.000			C I
KG7.	Towards Integrated	OMR 20,000	BFP/RGP	The Research	C0-I
	Monitoring System for	6	/EI/19/0	Council (TRC)	
	Migration to Smart grid in	(≈US\$	56		
	Oman	51,800)			
RG6.	Impacts of Dust on PV	OMR 15,000	IG/DVC/S	Sultan Qaboos	Co-I
	systems Performance in		ERC/18/0	University	
	Oman	(≈US\$	1	(Internal Grant)	
		38,700)			
RG5.	Solar PV Performance	OMR 20,000	CR/DVC/	Nafath/BP	Co-I
	Control study		SERC/17/	Mustadeem	
		(≈US\$	01	Project	
		51,600)		,	
RG4.	Development of Energy	OMR 64,000	SR/ENG/	Sultan Oaboos	Co-PI
	Management System for	,	ECED/17	University (His	
	Dispatchable Renewable	(≈US\$	/01	Maiesty Trust	
	Power Generation	165,120)	/	Fund)	
RG3.	Design and Implementation	OMR 6.500	IG/ENG/E	Sultan Oaboos	Co-I
	of the Electrical Subsystem	,	CED/13/	University	
	of a Stand-Alone Wind	(≈US\$	01	(Internal Grant)	
	Energy Conversion System in	16,770)		()	
	Oman	10,770			
RG2.	Enterprises Transition to	OMR 98,215	TRC/ORG	The Research	Co-PI
	Smart Grid in Oman	01/11/0,210	/E1/11/0	Council (TRC)	0011
		(~US\$	09		
		253 390)	0,		
RG1	Oman Eco-House Dosign	0MR	SOIL Eco-	The Research	Team
	Compatition	120.000	house	Council (TPC)	mom
		120,000 (~IIS¢	building project		hor
		(≈US⊅ 200 (00)			ber
		309,6001			

3.10. COLLABORATIVE INDUSTRIAL GRANTS

#	Title	Budget	Code	Sponsor	Role*
CG5.	Toward Establishing a	OMR 45,000	EG/ENG/	Majan	Co-I
	Sustainable Collaboration		ECED/12	Electricity	&
	offered by Majan Electricity	(≈US\$	/01	Company	Focal
	Company S. A. O. C. (MJEC) to	116,100)			person
	Department of Electrical and				
	Computer Engineering				
CG4.	Toward Establishing a	OMR 60,000	EG/ENG/	Rural Area	Co-I
	Sustainable Collaboration		ECED/12	Electricity	&
	offered by Rural Area	(≈US\$	/03	Company	Focal
	Electricity Company S. A. O.	154,800)			person
	C. (RAECO). to Department of				
	Electrical and Computer				
	Engineering				

662				34	
LG3.	Toward Establishing a	OMR 60,000	EG/ENG/	Muscat	Co-I
	Sustainable Collaboration		ECED/12	Electricity	&
	offered by Muscat Electricity	(≈US\$	/04	Distribution	Focal
	Distribution Company S. A. O.	154,800)		Company	person
	C. (MEDC) to Department of				
	Electrical and Computer				
	Engineering.				
CG2.	Toward Establishing a	OMR 60,000	EG/ENG/	Mazon	Co-I
	Sustainable Collaboration		ECED/12	Electricity	&
	offered by Mazon Electricity	(≈US\$	/05	Company	Focal
	Company S. A. O. C. (MZEC),	154,800)			person
	to Department of Electrical				
	and Computer Engineering				
CG1.	Toward Establishing a	OMR 60,000	EG/ENG/	Oman	Co-I
	Sustainable Collaboration		ECED/12	Electricity	&
	offered by Oman Electricity	(≈US\$	/07	Transmission	Focal
	Transmission Company S. A.	154,800)	,	Company	person
	0. C. (OETC) to Department				-
	of Electrical and Computer				
	Engineering				

3.11. FACULTY MENTORED UNDERGRADUATE RESEARCH AWARD PROGRAM

#	Title	Budget	Code/R	Sponsor	Students	Role*
			ef			
FM2.	Designing a	OMR	DR/201	The	Thuraiya Al Rashdi	М
	Model for	2,400	8/296	Research	Ahad Al Riyami	
	Capacity Credit	(≈US\$	-	Council	Omaima Al Shukaili	
	of Solar PV in	6,192)		(TRC)		
	MIS	_				
FM1.	A PV System to	OMR	FURAP/	The	Ahmed Al Wahaibi	М
	Power a	2,400	SQU/15	Research	Ibrahim bakhit	
	Greenhouse	(≈US\$	/003	Council	kashoob	
		6,192)		(TRC)		

*PI: Principal Investigator, Co-PI: Co-Principal Investigator; Co-I: Co-Investigator, M: Mentor, C: Completed, IP: In progress

4. ADMINISTRATIVE ROLES AND SERVICES

4.1. MAIN ROLES AT AOU

AOU-Oman Rector:

Leading AOU-Oman to be a pioneer in the quality of education for all and the development of a knowledge society.

Chairmanship of AOU-Oman Councils/Committees:

- University Council (Jan 2022 present)
- Quality Assurance and Accreditation Committee (Jan 2022 present)
- Research Committee (Jan 2022 present)
- Human Resources Committee (Jan 2022 present)
- Upper Disciplinary Council (Jan 2022 present)
- New Building Project Expenses Committee (Jan 2022 Present)
- Student Fund Committee (Jan 2022 Oct 2022)

Chairmanship of AOU- Headquarters Councils/Committees

• Academic Staff Upper Disciplinary Council (Oct 2023 – present)

Chairmanship of AOU- Headquarters Adhoch Committees

• Committee to supervise the New Building Inauguration Ceremony. established on 22 Dec 2022.

Membership of AOU- Headquarters Councils/Committees

- University Council (Jan 2022 present)
- Scientific Council (Oct 2022 present)
- Quality Assurance, Accreditation, and Academic & Institutional Standards Committee (Jan 2022 present)
- Information Technology Committee (Jan 2022 present)
- Buildings Executive Committee (Feb 2022 present)
- Finance Committee (Feb 2022 present)
- Academic and Scientific Research Committee (Oct 2022-Present)
- Academic Promotion Committee (Oct 2022-Present)
- Scientific Research Committee (Oct 2024-Present)
- Planning and Development Committee (Jan 2022 Oct 2023)

Membership of AOU- Headquarters Adhoch Committees

- Committee to review Academic Promotions and Procedures, established in Oct 2023.
- Committee to Audit the proposed Budgets of AOU Campuses and Headquarters for the financial year 2023/24. established on 16 Jan 2023.
- Handover Committee to receive the New Building from the Contractor. established on 22 Dec 2022.

- Committee for the 20 Anniversary and launching the New Strategic Plan and New Identity. established on 4 April 2022.
- Committee to Audit the proposed Budgets of AOU Campuses and Headquarters for the financial year 2022/23. established on 1 Feb 2022.

Chairmanship of AOU-Oman Adhoch Committees:

- The Principal Committee for hosting OU Examination Boad Meetings organized during 29 Jan to 1 Feb 2024. (Established on 26 Nov 2023)
- The Steering Committee of the "Law and 4th Industrial Revolution" Conference organized during 30-31 October 2023.
- The Principal Committee of 12th Batch Graduation Ceremony for AY 2023/24 (Established on 2 August 2023)
- The Principal Committee of 11th Batch Graduation Ceremony for AY 2022/23 (established on 20 March 2023)
- The Principal Committee of 8th, 9th, and 10th Batch Graduation Ceremony for AY 2021/22 (established on 24 Feb 2022)
- The Principal Committee for relocating to the new campus (established on 18 July 2022)
- Budget Preparation Committee for AY 2022/23 (established on 2 Feb 2022)
- Budget Preparation Committee for AY 2023/24 (established on 6 Feb 2023)
- Academic Staff Recruitment Committees (Jan 2022 present)
- Admin Staff Recruitment Committees (Jan 2022 present)

4.2. MAIN ACHIEVEMENTS AT AOU

Institutional Accreditation:

• Led AOU-Oman through a successful Institutional Standards Reassessment (ISRA) conducted by the Oman Authority for Academic Accreditation and Quality Assurance of Education (OAAAQA). The ISRA document was submitted on January 3, 2022, and the ISRA panel visit took place on May 16-17, 2022. The official Institutional Accreditation certificate was received on November 15, 2022, from HE the Minister of Higher Education, Research, and Innovation, the Chair of OAAAQA, and in the presence of HE the OAAAQA Chief Executive Officer.

Program Accreditation:

• Led AOU-Oman through the alignment of qualifications with the Oman Qualifications Framework for the "Management" and "Accounting" pathways. The application form was initially submitted on January 21, 2024.

Licensing New Academic Programs

- Lead AOU-Oman during the submission and reviewing process of the following new program proposals:
- A. Undergraduate Programs

- 1. BSc. and Diploma Programs Artificial Intelligence, submitted to the Ministry of Higher Education Research and Innovation for approval on 28 Feb 2023, Final approval received on 24 Jan 2024.
- 2. BSc. and Diploma Programs Cyber Security, submitted to the Ministry of Higher Education Research and Innovation for approval on 28 Feb 2023, Final approval received on 10 Jan 2024.
- 3. Diploma Program in Early Childhood Care and Education, submitted to the Ministry of Higher Education Research and Innovation for approval on 28 Feb 2023, Final approval received on 24 Jan 2024.
- B. Postgraduate Programs
 - 4. MSc. and Postgraduate Diploma Programs in Computing (Cyber Security and Forensics), submitted to the Ministry of Higher Education Research and Innovation for approval on 28 Feb 2023, Final approval received on 24 Jan 2024
 - 5. MSc. and Postgraduate Diploma Program in Law, submitted to the Ministry of Higher Education Research and Innovation for approval on 28 Feb 2023, Final approval received on 24 Jan 2024.

Modernization of Existing Academic Programs

- 1. Modernization of BA (Hons) and Diploma Programs in *English Language and Literature*, Submitted to the Ministry of Higher Education Research and Innovation on 8 August 2023. Approved in 29 August 2023.
- 2. Modernization of BSc (Hons) and Diploma Programs in *Information Technology and Computing* (Tracks: Computer Science, Computing with Business, Information Technology & Computing, Networking & Security), Submitted to the Ministry of Higher Education Research and Innovation on 30 May 2023. Approved on 10 Sep 2023.
- 3. Modernization of BA (Hons) and Diploma Programs in *Business Studies* (Tracks: Accounting, Management, Marketing, Systems), Submitted to the Ministry of Higher Education Research and Innovation on 7 May 2023. Approved on 10 Sep 2023.

AOU-Oman New Campus

• Lead AOU-Oman through the building, relocation, and inauguration of the new campus located at Seeb on 1 March 2023 under the patronage of HE the Minister of Higher Education, Research and Innovation and the presence of HRH Prince Abdulaziz bin Talal al Saud, Chairman of the Board of Trustees of the university.

AOU-Oman New Identity

• Lead AOU-Oman through the rebranding activity. The new brand was launched on 13 November 2023 under the patronage of HRH Prince Abdulaziz bin Talal al Saud, Chairman of the Board of Trustees of the university.

AOU-Oman New Strategy

 Lead AOU-Oman through the development, inauguration, and the implementation of the 5th Strategic Plan (2022-2027). The 1st AOU-Oman operational plan (AY 2022/23) of the new Strategic Plan was inaugurated on 6th October 2022.

AOU-Oman External Collaboration

- Expanded and reinforced collaboration with external stakeholders through signing Collaboration Agreements/Memorandums of Understanding with several Institutions/organizations including but not limited to:
 - > Omani Society for Educational Technology, 16 Nov 2023.
 - > Tickone platform, 8 November 2023.
 - ➢ Vodafone Oman, 25 October 2023.
 - Ministry of Higher Education Research and Innovation, 10 July 2023.
 - University of Selangor Malasia, 23 May 2023.
 - ➢ Code Academy, 18 April 2023.
 - A'Sharqiyah University, 30 March 2023.
 - ➢ Ministry of Social Development, 5 Feb 2023.
 - > Youth Vision (Matterz), 6 Sep 2022
 - Huawei Tech. Investment (Oman), 28 March 2023.

4.3. MAIN ROLES AT SQU

University

- Played an instrumental role in signing collaboration agreements with the following Institutions/Organizations:
 - Ministry of Transportation and Telecommunication/ Trading and Investment Establishment (2021)
 - Global Energy Interconnection Development and Cooperation (2021)
 - Unicorn International (2021)
 - National Energy Centre (2021)
 - Space Communication Technologies (2020)
 - Siemens (2020)
 - Huawei Tech. Investment LLC (2019)
 - Nafath Renewable Energy (2019)
 - Rural Areas Electricity Company (2016)
- Chaired Internal Quality Auditing teams to conduct an Administrative and Quality Audit & Assessment (AQAA) for the following units:
 - International Cooperation Office (2021).
 - Councils and Committees Affairs Office (2020)
- Served as Focal Person for several Collaboration Agreements with electricity sector companies.
 - Majan Electricity Company
 - Rural Area Electricity Company
 - Muscat Electricity Distribution Company
 - Mazon Electricity Company
 - Oman Electricity Transmission Company
- Served as Renewable Energy theme coordinator in Independent Learning Centre (FL15 -SU16).

- Served as Acting Director for Independent Learning Centre (21 June- 20 August 2015).
- Authored and presented "SQU PV Car Parking project" to the SQU Administration-Final report submitted on 7 July 2015.
- Participated in the Discussion Forum: "Towards Sustainable and Safe Environment – Arabic: تنحو بيئة امنة ومستدامة", College of Arts, 12 May 2015.
- Delivered a speech in SQU open day 2015 about "Renewable Energy in Oman-Status and Opportunities", SQU Grand Hall, 5 May 2015.
- Reviewed and commented on the study "Residential Energy Use in Oman A Scoping study" sent to SQU administration by "Authority of Electricity Regulation". May 2014
- Presented a poster in the "Towards Industrial Innovative Solutions" Exhibition in Rusayl Industrial Estate, 22 April 2014.
- Supervised SQU students in "International Conference on Renewable Energy: Generation, and Applications (ICREGA 2014)", UAE University, Al-Ain United Arab Emirates, 2-5 March 2014.
- Participated in SQU open day 2013 by presenting a poster, 5 May 2013.
- Reviewed a patent related to "Renewable Energy". Patent request received from the office of Dean of Research, January 2013.
- Participated in SQU-PDO Technology Souq by presenting a poster, 20 November 2012.
- Supervised SQU students in "2010 Engineering Students Renewable Energy Competition", UAE University

College of Engineering

- Served as Acting Dean. e.g. (11-22 August 2019, 14-16 July 2020, 6-7 September 2020)
- Chaired the Mechatronics Program Steering Committee Chair (Sep2020- Dec 2021)
- Served as a member in the following college committees:
 - College Board (Jan 2019-Dec 2021)
 - Advisory Board (Jan 2019- Dec 2021)
 - Executive Committee (Jan 2019- Dec 2021)
 - Space Allocation Committee (Jan 2019- Dec 2021)
 - Strategic Planning and Development Committee (Jan 2019- Dec 2021)
 - Mechatronics Program Steering Committee Co-chair (Jan 2019-SU20)
 - Accreditation Committee (Jan 2019-Dec 2019)
 - Staff/Student Liaison Committee (Sep 2018 Aug 2019)
- Served as Member in the following college teams:
 - The college team preparing the proposal to establish Sustainable Energy Research Centre at SQU (SP16-SU16).
 - The college team preparing the proposal to have Masters of Engineering in renewable Energy (SP16-FL16).
 - The college team investigating SQU Streetcar System (FL15-SU16).
 - The college team to prepare the proposal to have solar PV parking at SQU (SP15-SU16).

- The College team to prepare the TRC proposal "Research Chair in Renewable Energy Related to Oman at Sultan Qaboos University" (SP13-FL15).
- The College team of Oman Eco-House Design Competition (FL13-SP16).
- The College Renewable Energy Committee (FL12 SP13) that looks into possible application of renewable energy technology in the College.

Department of Electrical and Computer Engineering

- Chaired the ECE Department (Jan 2019 Dec 2021)
- Chaired the following department Committees/Boards:
 - Department Board (Jan 2019- Dec 2021)
 - Advisory Board (Jan 2019- Dec 2021)
 - Student-Staff Liaison Committee (Sep 2018- Dec 2021)
 - Misconduct Committee (Jan 2019)
- Served as Assistant Head of Department (May Dec 2018)
- Served as Acting Head of Department. e.g. (20-31 May 2018, 28 Nov-4 Dec 2018)
- Served as Power Systems and Energy (PSE) Specialization coordinator
 - PSE Specialization Coordinator for Final Year Projects. (Sep 2010 Jun 2013)
 - PSE Specialization coordinator for curriculum review. (Jan-Jun 2014)
- Served as a member in the following Department Committees:
 - Human Resources Committee (Sep 2012 Jun 2016, Jan 2019 Dec 2021)
 - Curriculum Review & Program Development Committee (FL18– Dec 2021)
 - Strategic Planning Committee (Sep17– Dec 2021)
 - Misconduct Committee (Sep-Dec 2018)
 - Student Advisement Committee (Sep-Dec 2018)
 - Postgraduate Studies and Research Committee (Sep 2017– Jun 2018)
 - Industrial Outreach and Community Services Committee. (Sep 2010 Jun 2013), (Sep 2015 June 2016)
 - Publications and Web Committee. (Sep 2010 June 2014)
 - Final Year Projects Committee. (Sep 2010 Jun 2013)
 - Ad-hoc committee (Feedback from students about lack of motivation in SP2011)
 - Final Year Projects Committee (Jan 2003 Dec 2005)
 - Publications and Web Committee. (Jan 2003)
- Delivered a Seminar to ECE Final Year Project students. Title: "Introduction to Engineering Ethics", Date: 16 November 2011. SQU Venue: SQU, LT#5
- Participated actively in social events.

4.4. SERVICES TO THE COMMUNITY

- Chairman of National Committees/Teams
 - ک 2024: Ministry of Higher Education, Research and Innovation Green HEI Team (فريق الجامعات الخضراء)

Reporting to: HE the Minister of the Ministry of Higher Education Research and Innovation.

- Membership of National Committees
 - 2023: Ministry of Higher Education, Research and Innovation HEI Student Councils Organizational Guide Review and Amendment Committee (لجنة مراجعة وتعديل دليل المجالس الاستشارية الطلابية في مؤسسات التعليم العالي) Committee Chair: HE the Undersecretary of the Ministry of Higher Education.
 - Sept 2023: Ministry of Higher Education, Research and Innovation, Oman Virtual University Proposal.
 Committee Chair: Prof. Ahmed Al Naamany.

Committee Chair: Prof. Ahmed Al Naamany.

- Invited Speaker
 - Ethics and Responsibilities in Open Science, presented in the Arab Forum for Open Science (الأخلاقيات والمسؤوليات في العلم المفتوح), Arab Open University, Kuwait. 22-23 November 2023.
 - AOU Oman Contribution towards Sustainable Development Goals, presented in the OU UK - AOU Partnership Conference, , Milton Keynes, UK. 6-7 March 2023.
 - Research in Oman 2040 Vision An opportunity for Collaboration, presented in the Students Research Day, University of Science and Technology, 10 November 2022, Al Masunah - Oman.
 - Economic Dispatch of Oman's Main Interconnected System in Presence of 500MW Solar PV Plant, presented in the 6th Science and technology Exchange Program (STEP), 10 November 2019, Tehran, Iran.
 - الطاقة المتجددة ورشة علمية نظرية (Renewable Energy)", presented in the National Week for Science, technology, engineering, and mathematics (STEM), Directorate General of Education in Muscat Governorates, Asim Bin Omar Bin Al Khatab Basic Education School For Boys, 14 March 2019.
 - "Impact of Solar Power Projects on Locational Marginal Prices and Transmission Losses in Oman", presented in the IEEE PES Oman Smart Grid Seminars, Sultan Qaboos University, Muscat, Oman, 15 May 2018.
 - "Renewable Energy in Electricity Sector of Oman", Presented in Smart Education and Energy Symposium (SETS2018), Ibra College of Technology, Ibra, Oman, 27 March 2018.
 - Future Perspectives of Renewable (Future Perspectives of Renewable Energy in Oman)", presented in the National Defense College, Ministry of Defense, Bayt Al Falaj, 18 February 2018.
 - Panelist in "The Future Mobility Round Table Muscat" to discuss the future of electric cars in Oman. Intercontinental hotel, Muscat, 22 January 2018.
 - "Renewable Energy in Electricity Sector Status and Future Perspectives", presented in 1st Environmental Symposium on Renewable Energy (الدورة), Ministry of environment and Claimant Affairs, Muscat, Oman, 28 December 2017.
 - "Electricity Sector in Oman Status and Furfure Perspectives", presented in the Joint Workshop between Oman and Korea on Energy Infrastructure Cooperation. 26 Sept 2017.

- "Grid-connected PV Systems", presented in Windorex + Glass & Aluminium Oman 2016, Oman International Exhibition Centre, Muscat, 17 May 2016.
- "Renewable Energy in Electricity Sector of Oman- Opportunities and Challenges", presented in *The Sixth National Symposium on Engineering Final Year Projects*, Al Mashariq Auditorium, University of Nizwa, 4 May 2016.
- "Renewable Energy in Electricity Sector of Oman- Current Status and Future Perspectives", Presented to Petroleum and Chemical Engineering students (CHPE4912-Special Topics II), CMT C17, SQU, 3 April 2016.
- "Renewable Energy in Oman", presented in *Water and Energy Research Symposium*, Organized by SQU International Cooperation Office and British Council, ECE Meeting Room, 16 March 2016.
- "Renewable Energy in Oman- Status and Opportunities", presented in SQU Open Day 2015, SQU Grand Hall, 5 May 2015.
- "Impacts of Wind Variability on Generation costs: Overview and case Study", presented in the "National Energy Strategy" workshop, organized and hosted by Public Authority of Electricity and Water (PAEW), Muscat, 5 June 2014.
- "Electricity from Renewable Energy in Oman", presented in the "Renewable Energy and Storage" workshop organized by Port of Duqm Company, Radisson Blu Hotel, Muscat, 11 May 2014.
- "The Status of Renewable Energy in Oman", presented in the "Belgium Economic Mission to Oman - Water, Energy & Environment Round Table", Grand Hayat Hotel, Muscat, 19 March 2014.
- "Renewable Readiness Assessment- Off-grid Applications", presented in the "Renewables Energy Readiness Assessment in Oman" workshop, Organized by IRENA and PAEW, Crown Plaza Hotel, Muscat, 3 December 2012.
- Participated in IIASA-ISC 1st Consultative Science Platform "Pathways for a more sustainable recovery for a post COVID-19 world for Sustainable Energy", 18 June 2020.
- Selected Media Interviews
 - Live Interview on Funoon Production, البرنامج الخاص بالعيد الوطني الثالث) (البرنامج الخاص بالعيد الوطني الثالث Interview about Higher Education sector والخمسين للنهضة، محور التعليم العالي) in Oman. Nov 18, 2023, 7:30 PM. <u>https://youtu.be/FwoqjyIAzOA</u>
 - Live Interview on Alwisal, .) (واقع مؤسسات التعليم العالي الخاصة في منتدى الوصال مع د. Discussion about The Contributions of HEI in Community .) المعتصم المعمري Service. Jul 12, 2023, 2:00 PM. <u>https://youtu.be/mrUMo90Zqzc</u>
 - Live Interview on Oman General TV, (بحوث علمية عمانية الأكثر تأثيرا على مستوى). Discussion about Omani researchers being among the top 2% world most influential researchers. Nov 18, 2020, 9:00 AM. <u>https://www.youtube.com/watch?v=-pwGSmgUTyU</u>
 - Live Interview on Muscat FM Radio (برنامج الصباح رياح مع المذيع د. خالد الزدجالي). Discussion about Omani researchers being listed among the top 2% world most influential researchers. Nov 17, 2020, 8:40 AM.

- Live Interview on Hala FM Radio (برنامج كل الأسئلة مع المذيعة خلود العلوي). Discussion about Omani researchers being listed among the top 2% world most influential researchers. Nov 17, 2020, 8:40 AM.
- Live Interview on Hala FM Radio (كل الأسئلة مع المذيعة خلود العلوي). Discussion about SQU Solar Parking Project. July 17, 2016, 3:05 PM
- Live Interview on Oman General Radio (برنامج صباح الخير يا بلادي). Discussion about SQU Solar Parking Project. June 29, 2016, 8:45 AM
- Recorded Interview on Oman General Radio (برنامج أنوار). Discussion about Renewable Energy. January 23, 2016
- Live Interview on Oman General Radio (برنامج صباح الخير يا بلادي). Discussion about Renewable Energy and ILC workshop, August 30, 2015, 9:00 AM
- Selected Media Articles
 - Addressing ICT skills gap in Oman through PPP, published on Oman Observer (17 Sep 2024), https://www.omanobserver.om/article/1159242
 - الشراكات بين القطاعين العام والخاص حل نموذجي لسد فجوة المهارات بمجال تقنية المعلومات , published on Alwatan Newspaper (18 Sep 2024), https://alwatan.om/article/12136
 - سد الثغرات بين التعليم الأكاديمي التقني ومتطلبات العصر الرقمي), Bridging the Gap between Academia and IT Era Requirements. Published in Al Shabiba newspaper (5 Dec 2023), https://shabiba.com/article/190575
 - (ترقية الشبكة الذكية المصغرة), Establishment of a Smart Grid Lab and collaboration with industrial partners, Published on Anwar (28 July 2020) and Oman newspaper (28 July 2020). https://anwaar.squ.edu.om/ar/نشر/ArticleID/1632
 - (تحديث مختبر الشبكة الذكية في جامعة السلطان قابوس بتمويل من مجلس البحث العلمي), Establishment of a Smart Grid Lab and collaboration with industrial partners, Published on Anwar (28 July 2020) and Oman newspaper (29 July 2020). https://www.omandaily.om/article/14122
- Co-organized workshops for Electricity Sector Companies at SQU:
 - Power System Harmonics Workshop, 14-15 October 2015.
 - Power System Protection workshop, 11-13 October 2015.
 - Programmable Logic Controllers and SCADA Systems Workshop, 25-27 January 2015
 - Power System Planning Workshop, 18-21 January 2015.
 - Smart Grid Workshop, 15-19 June 2014.
 - Electrical Power Quality Workshop, 8-12 June 2014.
 - Medium and High Voltage Switchgear Workshop, 9-13 February 2014
 - Power System Analysis Workshop, 2-6 February 2014
 - Substation Protection Workshop, 26-30 May 2013
 - Programmable Logic Controllers: An Introduction for Power System Engineers, 12-16 January 2013
 - Power System Protection Workshop, 19-23 January 2013
- Offered Workshops/Short courses

- PV Systems Design and Applications Workshop, Organized by Sustainable Energy research Centre and Nafath Renewable Energy. Delivered by Abdullah Al-Badi, Mohammed Al-Badi, Rashid Al-Abri, and Abdulsalam Elhaffar, SQU Academic Council Seminar Room, 6-10 June 2021.
- PV Systems Design and Applications Workshop, Organized by Sustainable Energy research Centre and Nafath Renewable Energy. Delivered by Abdullah Al-Badi, Mohammed Al-Badi, Rashid Al-Abri, and Amer Al-Hinai, ECED Meeting Room, SQU, 2-6 Feb 2020.
- PV Systems Design and Applications Workshop, Organized by Sustainable Energy research Centre and Nafath Renewable Energy. Delivered by Abdullah Al-Badi, Mohammed Al-Badi, Rashid Al-Abri, and Amer Al-Hinai, SQU Academic Council Seminar Room, 1-5 Dec 2019.
- PV Systems Design and Applications Workshop, Organized by the Center of Community Service and Continuing Education. Delivered by Amer Al-Hinai, Mohammed Al-Badi and Rashid Al-Abri, SQU Academic Council Seminar Room, 12-15 March 2018.
- PV Systems Design and Applications Workshop, Organized by Sustainable Energy research Centre and Nafath Renewable Energy. Delivered by Rashid Al-Abri, Amer Al-Hinai, and Mohammed Al-Badi, SQU Academic Council Seminar Room, 4-7 March 2018.
- الطاقة المتجددة وآفاقها المستقبلية في السلطنة (Future Perspectives of Renewable Energy in Oman)", Organized by Independent Learning Center. Delivered by Mohammed Al-Badi, SQU Main Library, Computer Lab, 11-13 February 2018.
- PV Systems Design and Applications, Organized by Independent Learning Center. Delivered by Mohammed Al-Badi, SQU Main Library, Computer Lab, 25-26 September 2017.
- Advanced Power System Analysis, Organized by Department of Electrical and Computer Engineering. Delivered to RAEC Engineers by Mohammed Al-Badi, SQU, 16 February - 26 April 2016.
- Renewable Energy in Oman- Current Status and Future Perspectives. Organized by Independent Learning Center. Delivered to SQU students by Mohammed Al-Badi, SQU Main Library, Lecture Room, 7-10 February 2016.
- Renewable Energy Option for Oman, Organized by Independent Learning Center. Delivered to SQU studentsQatar by Mohammed Al-Badi, SQU Main Library Lecture Room, 4-7 October 2015.
- Power System Analysis Workshop, delivered to OETC, RAEC, MEDC, MJEC, MZEC engineers. Organized by Department of Electrical and Computer Engineering. Delivered by Nasser Hosseinzadeh, Mohammed Al Badi and Salem Al-Hinai, SQU, 2-6 February 2014
- Tender Technical Evaluation team member:
 - *Majan Electricity Company* Rooftop Photovoltaic (PV) system project, 2012.
- Preparation and marking of a placement test *for State Audit (Oman)* candidates, initial screening of CVs as well as interviewing candidates, 2013.

4.5. SERVICES TO THE PROFESSION

- Academic Program Reviewer for the Ministry of Higher Education Research and Innovation (MHERI)- Oman:
 - PhD in Engineering Program proposal submitted by a Private Higher Education Institute. Authorization letter no. 8/2024.
 - PhD in Engineering Program proposal submitted by a Private Higher Education Institute. Authorization letter no. 40/2022.
 - Bachelor of Engineering in Electrical Power Engineering program program proposal submitted by a Private Higher Education Institute. Authorization letter no. 58/2018.
- External Reviewer for Oman Authority for Academic Accreditation and Quality Assurance of Education (OAAAQE):
 - Appointed as an External Reviewer in Institutional Standards Assessment Panel activities and to review programs since 31 October 2019.
- Reviewer for Qatar Research, Development, and Innovation Council (previously Qatar National Research Fund) for the following cycles:
 - Academic Research Grant Program: ARG01 (2023), ARG02 (2024)
 - National Priorities Research Program: NPRP8 (2015), NPRP10 (2017), NPRP11S(2018), NPRP12 (2019), and NPRP13-S (2020).
 - Undergraduate Research Experience Program: UREP19 (2016).
- Editorial Board Membership:
 - The Journal of Engineering Research: Associate Editor (2019-2022)
 - Cambridge Scholars Publishing: Editorial Advisory Board (2018 2021)
 - International Journal of Electrical Engineering Education: Associate Editor (2017-2022)
- Reviewer for several Journals including but not limited to:
 - Electric Power Systems Research
 - IEEE Transactions on Energy Conversion
 - IEEE Transactions on Power Systems
 - IEEE Power Engineering Letters
 - IEEE Transactions on Smart Grid
 - International Journal of Electrical Power and Energy Systems
 - Energy Systems
 - International Journal of Electrical Engineering & Education
 - Sustainable Energy Technologies Assessments
 - IET Renewable Power Generation
 - Energy Policy
 - International Journal of Sustainable Energy
 - The Journal of Engineering Research
 - Resources
 - Energies
 - Scientific Reports
- Conference committee Chair:

- Special Session (SS05: Wind Power for Renewable Energy Systems) Chair in the International Conference on Emerging and Renewable Energy: Generation and Automation (ICEREGA 2018), Sousse, Tunisia, 28-30 October 2018.
- Special Session (SS01: Renewable Energy Applications in Rural Areas) Chair in the 4th International Conference on Renewable Energy Generation and Applications (ICREGA 2016), Belfort-France, 8-10 February 2016.
- Exhibition Committee Chair in the 8th IEEE GCC Conference and Exhibition (IEEE GCC 2015), Muscat, Oman, 1-4 February 2015.
- International Conference committee membership:
 - International Committee member: 22nd International Conference on Renewable Energies and Power Quality (ICREPQ'24), Bilbao, 26-28 June 2024.
 - International Committee member: 21st International Conference on Renewable Energies and Power Quality (ICREPQ'23), Madrid, 24-26 May, 2023.
 - International Committee member: 20th International Conference on Renewable Energies and Power Quality (ICREPQ'22), Vigo, 27-29 July, 2022.
 - International Advisory Committee member: International Conference on Electrical Engineering and Multidisciplinary Research(ICEEMR 2022), Chennai, India, June 23-24, 2022.
 - International Committee member: 19th International Conference on Renewable Energies and Power Quality (ICREPQ'21), Almeria, 28-30 July 2021.
 - International Committee member: 18th International Conference on Renewable Energies and Power Quality (ICREPQ'20), University of Granada, Granada, Spain, 2- 4 of September 2020.
 - International Committee member: International Conference on Emerging and Renewable Energy: Generation and Automation (ICEREGA 2019), Istanbul, Turkey, 28-30 October 2019.
 - International Committee member: International Conference on Emerging and Renewable Energy: Generation and Automation (ICEREGA 2018), Sousse, Tunisia, 28-30 October 2018.
 - International Committee member: The 4th International Conference on Renewable Energy Generation and Applications (ICREGA 2016), Belfort-France, 8-10 February 2016.
 - International Committee member: The 3rd International Conference on Renewable Energy Generation and Applications (ICREGA 2014), Al-Ain, UAE, 2-5 March 2014.
- Conference/symposium committee membership:
 - Scientific Committee Member: Regional Symposium on Geospatial Information Exchange and Research (GIER2022), Muscat, Oman, 14-15 Dec 2022.
 - Special Session member (Open Hardware Technologies in Engineering Education OpenHWEE'21) in the IEEE Global Engineering Education

Conference (IEEE EDUCON 2021), Radisson Blu Park Royal Palace Hotel, Vienna, Austria, 21–23 April 2021.

- Technical Program Advisory Committee member: International Conference on Marine Engineering and Technology Oman 2019 (ICMET Oman), Muscat, Oman, 5-7 November 2019.
- Technical Committee member: Oman Energy and Water Conference and Exhibition 2019, Muscat, Oman, 22-24 April 2019.
- Scientific Committee and Jury member: the 2nd Student Research Conference (2nd SRC) held at Sultan Qaboos University, Muscat, Oman, 15-16 April 2019.
- Organizing committee: Technology of Renewable Energy Systems Symposium, College of Engineering, Sultan Qaboos University, 20th March 2019.
- Executive Committee member: The 1st International Conference on Unmanned Vehicle Systems, Sultan Qaboos University, Muscat, Oman, 5-7 February 2019.
- Technical Program Committee member: the 4th Oman Energy and Water Conference and Exhibition, Muscat, Oman, 30 April– 2 May 2018.
- Technical Program Committee member: the 2nd Oman Energy and Water Conference and Exhibition, Muscat, Oman, 23– 25 May 2016.
- Technical Program Committee member: Oman Energy and Water Conference and Exhibition, Muscat, Oman, 19-21 May 2015.
- Steering Committee and Technical Program Committee member: The National Symposium on "Renewable Energy and Its Impacts of National Security", Muscat, October 2014.
- Reviewer for several conferences including but not limited to:
 - 22nd International Conference on Renewable Energies and Power Quality (ICREPQ'24), Bilbao, 26-28 June 2024.
 - 21st International Conference on Renewable Energies and Power Quality (ICREPQ'23), Madrid, 24-26 May, 2023.
 - Regional Symposium on Geospatial Information Exchange and Research (GIER2022), Muscat, Oman, 14-15 Dec 2022.
 - The 20th International Conference on Renewable Energies and Power Quality (ICREPQ'22), Vigo 27-29 July 2022.
 - The 19th International Conference on Renewable Energies and Power Quality (ICREPQ'21), Almeria, 28-30 July 2021.
 - The 18th International Conference on Renewable Energies and Power Quality (ICREPQ'20), University of Granada, Granada, Spain, 2- 4 of September 2020.
 - The International Conference on Marine Engineering and Technology Oman 2019 (ICMET Oman), Muscat, Oman, 5-7 Nov 2019.
 - The International Conference on Emerging and Renewable Energy: Generation and Automation (ICEREGA 2018), Sousse, Tunisia, 28-30 October 2018.
 - The 31st IEEE Canadian Conference on Electrical & Computer Engineering (CCECE 2018), Québec City, Canada, 13–16 May 2018

- The 30th IEEE Canadian Conference on Electrical & Computer Engineering (CCECE 2017), Windsor, Canada, 30 April-3 May 2017.
- The 2nd Oman Energy and Water Conference and Exhibition, Muscat, Oman, 23–25 May 2016.
- The 4th International Conference on Renewable Energy Generation and Applications (ICREGA 2016), Belfort-France, 8-10 February 2016.
- The 8th IEEE-GCC Conference and Exhibition (IEEE GCC 2015), Muscat, Oman, 1-4 Feb 2015.
- The 3rd International Conference On Renewable Energy Generation and Applications (ICREGA 2014), Al-Ain, UAE, 2-5 March 2014.
- The 2013 IEEE International Conference on Clean Energy & Technologies (IEEE CEAT 2013), Langkawi, Malaysia, 18 20 November 2013.
- The 2012 IEEE International Power and Energy Conference (IEEE PECON 2012), Kota Kinabalu Sabah, Malaysia, 2 to 5 December 2012.
- The 2009 International Conference on Computer, Communication and Power (ICCCP 2009), Muscat, Oman, 15-18 Feb 2009.
- *Session Chair* in the following conferences:
 - IEEE Power Talks, Grand Millennium Hotel, Muscat Sultanate of Oman 22-24 May 2023.
 - Education in Oman 2022 (ندوة التعليم في سلطنة عمان). Oman Convention and Exhibition Centre, Muscat, Oman, 23 June 2022.
 - The 4th Oman Energy and Water Conference and Exhibition. Muscat, Oman, 30 April– 2 May 2018.
 - The 2nd Oman Energy and Water Conference and Exhibition. Muscat, Oman, 23–25 May 2016.
 - The 7th IEEE GCC conference (IEEE GCC 2013). Doha, Qatar, 17-20 Nov 2013.
 - The National Conference on Advanced Technologies in Electrical and Mechanical Engineering (NCATEME 2013). Al Musanna College of Technology, Oman, 16 April 2013.
 - Renewable Readiness Assessment, organized by *PAEW in collaboration with IRENA*. Muscat, 2-3December 2012.
- *Jury member* in the following events:
 - PDO Renewable Energy Award for the academic year 2018/19. Ministry of Education, 31 March 2019.
 - Students' projects evaluations in the 7th Engineering Students Gathering, SQU, 3-6 April 2016.
 - Students' projects evaluations in the 6th Engineering Students Gathering, SQU, 30 March 2 April 2014.
 - Paper evaluations in the National Conference on Advanced Technologies in Electrical and Mechanical Engineering (NCATEME2013), Al Musanna College of Technology, 16 April 2013.
- Active member and a volunteer in IEEE Oman Section.
 - Deputy chair for IEEE Oman chapter Power and Energy Society (2018-2024).

- Organized the following IEEE seminars:
 - i. Power Quality, Date and time: 10 June 2014 at 5:00 PM, Venue: Sultan Qaboos university, LT#2, Muscat, Oman.
 - ii. Smart Grid, Date and time: 17 June 2014 at 5:00 PM, Venue: Sultan Qaboos university, LT#2, Muscat, Oman.