



FACULTY FULL NAME: Eman Abdulelah Al Dawood

POSITION: Lecturer

Personal Data

Nationality | Saudi

Department | Physics

Official IAU Email | ealdowood@iau.edu.sa

Mobile No. | +966506860926

Language Proficiency

Language	Read	Write	Speak
Arabic	✓	✓	✓
English	✓	✓	✓
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2023	PhD in Materials Science and Engineering	King Abdullah University of Science and Technology (KAUST)	Thuwal, Makkah Province, Kingdom of Saudi Arabia
2016	MSc in Materials Science and Engineering	King Abdullah University of Science and Technology (KAUST)	Thuwal, Makkah Province, Kingdom of Saudi Arabia
2008	BSc in Physics	Imam Abdulrahman Bin Faisal University (University of Dammam)	Damma, Eastern Province, Kingdom of Saudi Arabia

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Alternative Routes to Low Lattice Thermal Conductivity in Thermoelectric Materials.
Master	Phononic Structure Relationships in the Subgroup phases of Ferroelectric $\text{Ca}_3\text{Mn}_2\text{O}_7$



Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Lecturer	Imam Abdulrahman Bin Faisal University	2016
Teaching Assistant	Imam Abdulrahman Bin Faisal University	2009

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
N/A		

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
	Eman Dawood, Aamir Shafique, and Udo Schwingenschlogl.	Anomalous Ultralow Lattice Thermal Conductivity in Mixed-Anion Ba ₄ Sb ₂ Se and Ba ₄ Sb ₂ Te	American Chemical Society (ACS), 2023

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
	N/A			

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
	N/A		

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	N/A		



Current Research

#	Research Title	Name of Investigator(s)
	N/A	

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Women in Science and Engineering (WISE) conference.	KAUST, Thuwal, Saudi Arabia. 2023	Attendance
2	Emerging concepts in solar energy conversion – from computation to Implementation.	KAUST, Thuwal, Saudi Arabia. 2020	Attendance
3	Synergistic Approaches in Solar Energy Conversion.	KAUST, Thuwal, Saudi Arabia. 2018	Attendance

Membership of Scientific and Professional Societies and Organizations

N/A

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Physics II (Mechanics and Waves)	PHYS 206	Lectures
2	Mathematical Physics I	PHYS 207	Lectures

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

Physics II (Mechanics and Waves) includes classical physics and the oscillatory motion and its application.
Mathematical Physics I course includes the basic concepts and the theoretical methods used in physical problems. The topics include complex numbers and their application, linear algebra, calculus of variation, curvilinear coordinates, and vector analysis. The examples and problems selected in correspondence to the main contents for this course give students the necessary knowledge and skills to read and analyze physical problems with a proper understanding.



Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	N/A		

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	N/A
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Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
	Mathematical Physics I			✓		01/2024	05/2024

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
	N/A			

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
	N/A			

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
	N/A			

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
	N/A			

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)



Administrative Responsibilities

#	From	To	Position	Organization
	N/A			

Committee Membership

#	From	To	Position	Organization
	01/2024	05/2024	Member of Quality Assurance Committee	Imam Abdulrahman Bin Faisal University (IAU)

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
	N/A			

Volunteer Work

#	From	To	Type of Volunteer	Organization
	08/01/2022	10/01/2022	Volunteering as a chaperone of students from Saudi Research Science Institute (SRSI), and providing academic and emotional support	King Abdullah University of Science and Technology (KAUST).

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Programming languages: Python, a strong background in Unix/Linux environments.
2	Codes: VASP, Quantum Espresso, Phonopy, AMSET, ShengBTE, ALAMODE.
3	Graphics: Gnuplot, Xmgrace, OriginLab, and Inkscape.
4	Text: Microsoft office (Word), LATEX.
5	Excellent analytics, inter-personal communication, public relations & speaking, mentoring.



Last Update

05/06/2024