



FACULTY FULL NAME: Dr. Ghada Ishaq Ameerah

POSITION Assist. Prof. In Physics

Personal Data

Nationality | Jordan

Date of Birth | 28-8-1977

Department | Physics

Official UoD Email | aiameereh@iau.edu.sa

Office Phone No. | 403

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	good
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2009	PhD in physics	Jordan University	Amman- Jordan
2002	Msc in physics	Jordan University	Amman- Jordan
1999	Bsc in physics	Jordan University	Amman- Jordan

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

PhD	ELECTRONIC STRUCTURE OF M_4Si_4-xGex COMPOUNDS, ($x=0-4$) AND $M= Fe, Co, Ni$: AB INITIO CALCULATION
Master	Thermal Conductivity for polymers
Fellowship	-

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Assist. Prof	Imam Abdulrahman Bin Faisal University	2009-up to now



Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date

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
	Mahmoud Al-Elaimi, Farida Hamioud, G.I.Ameereh and A.A.Mubarak	<ul style="list-style-type: none"> Theoretical investigation of the electronic and thermoelectric behavior of CoV₂O₄ 	International Journal of Computational Materials Science and Engineering.Vol 8, No.2 (2019) (14 pages)
1-	G.Ameereh, B.Hamad and J.khalifeh	<ul style="list-style-type: none"> Electronic structure of Co (Si, Ge) compounds: Ab-initio calculation. 	Physica B: Condensed Matter, 403, 3503-3508. 2009
2-	G.Ameereh, B.Hamad and J.khalifeh	<ul style="list-style-type: none"> Electronic structure of Fe₄Si_{4-x}Gex (x = 0-4) compounds: ab initio calculation. 	physica status solidi B, 246 , 129 - 134. 2008

Refereed Scientific Research Papers Accepted for Publication

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

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

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

Completed Research Projects

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



Current Researches

#	Research Title	Name of Investigator(s)
	CSA2 Projects	Ghada Ameerh , Fatima Mustafa, Athary Mohanna, Yasmeen Al Jouf

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	Certificate of Student Assessment (CSA projects Exhibition)	Imam Abdulrahman Bin Faisal University, 25 th -5-2022	Project co-executive
	Conference on Sustainable Development	Imam Abdulrahman Bin Faisal University, 22-24-january-2019	Attending
	Jubail 2 nd Energy Management Conference	King Abdullah Cultural Center, Jubail industrial 2019	Attending
1	4 th Saudi Conference for Nano-techniques	King Fahd University- 2016	Attending
2	6 th Student Conference	2015	(projects Arbitration)
3	5 th Student Conference	2013	(projects Arbitration)
4	4 th Student Conference	2012	Projects supervising)

Membership of Scientific and Professional Societies and Organizations

- Saudi Physical Society

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Physics 101	Phys 101	Teaching
2	Physics 102	Phys 102	Teaching
3	Physics 3	PHYS 201	Teaching
4	Optics	PHYS 202	Teaching
5	Mathematical Physics	PHYS 203	Teaching
6	Electromagnetic	PHYS 302	Teaching
7	Astronomy	Phys 206	Teaching
8	Physics (for statistics program)	Phys202	Teaching
9	Physics (for energy program)	Phys202	Teaching



10	Statistical and Thermal Physics	PHRE306	Teaching
----	---------------------------------	---------	----------

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

1	<p>Physics 101: This course covers physics basics which include identification of physical quantities, units, coordinates, dimensions, vector's characteristics, the kinematic equations, laws of motion, specifically Newton's laws, equations of motion, types of energy, work–Kinetic energy theorem as well as the principle of energy conservation. The course also touches on concepts of pressure, density, fundamentals of fluid mechanics, Archimedes's law, viscosity, Bernoulli's equation and its applications.</p>
2	<p>Physics 2: This course describes the electric and magnetic phenomena, besides methods that being used to produce electric and magnetic fields.</p> <p>To acquaint with calculating and measuring methods of electric and magnetic fields, mathematical theories which treat them, as well as knowing some applications of electric and magnetic fields.</p> <p>So this course aims to develop student's capacity to understand all phenomena of electricity and magnetism, and use them to explain electric instruments work and establish a scientific basic background to understand the subsequent courses.</p>
3	<p>Physics 3: This course interests on the study of oscillations and waves motions. Oscillations motions include Simple Harmonic Motion (SHM), damped oscillations and forced oscillations. The course presents a comparison between SHM and Uniform Circular Motion and explains the concept of energy and its types.</p> <p>The wave motions cover the travelling and standing waves in Cord and Air Columns. A particular attention is made to sinusoidal waves and energy propagation.</p> <p>The course interests also on the study of sound waves characteristics and Doppler Effect in different applications cases. The course studies and explains also other wave phenomenon such as superposition, interference, resonance and beat.</p>
4	<p>Optics: The aim of this course is to study principles and mathematical equations of optics. The covered topics are: the nature of light, some properties of light such as reflection, diffraction and dispersion, the laws of geometric optics such as Huygens's principle and Fermat's principle, image formation by flat mirror and spherical mirrors, images formed by refraction and thin lenses, optical devices such as the camera, the eye, the compound microscope and the telescope.</p> <p>The course also touches on some phenomenon of light such as interference of light waves, diffraction patterns and polarization. In addition to the laser and its applications</p>
5	<p>Mathematical Physics: The aim of this course is to provide the basics of mathematics in physics. The covered topics are complex number, matrices, analysis of vectors, coordinates systems, Fourier series and differential equation</p>
6	<p>Electromagnetic: This course interests on the study of electrical & magnetic fields from differential and integral point of view in both vacuum and matter based on continued distribution of electrical charges. The used methods are based on studying the Maxwell's equations which link these two fields that complement each other despite the different characteristics of each.</p> <p>The course interests also on the studying of the insulating and magnetic material and their effects on Maxwell's equations and electromagnetic waves. The study englobes the principal laws such as Gauss's and Amper's laws and Poisson and Maxwell equations.</p>



Statistical and Thermal Physics: This course is interested in the applications of classical and quantum statistical theories for large gatherings that have great numbers of subsystems and molecules. These applications are based on statistical mathematical tools which allow the study of the energies levels of atoms and molecules in a given system. Also, the statistical physics constitute a framework that links between microscopic properties of molecules and the macroscopic properties of materials consisting mainly of these .particles

Postgraduate

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

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

1	
2	

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
	Physics 101	x	x	X			
	Physics 102		x	X			
	Physics 3		x	X			
	Optics	x	x	X			
	Mathematical Physics	x		X			
	Electromagnetic	x	x	X			
	Astronomy	x		X			
	Physics (for statistics program)	x		X			
	Physics (for energy program)	x	x	X			
	Statistical and Thermal Physics	x		X			

Guest/Invited Lectures for Undergraduate Students

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

Student Academic Supervision and Mentoring



#	Level	Number of Students	From	To
	Ungraduated students	20-30	1431	Now

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date

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

Administrative Responsibilities

#	From	To	Position	Organization

Committee Membership

#	From	To	Position	Organization
	1442	1443	Professional Test Initiative	College of Science and Humanities
	1439	1443	Exams Quality	College of Science and Humanities
	1439	1443	Scientific Committee	College of Science and Humanities
	1435	1439	Quality Committee	College of Science and Humanities
	1434	1435	Arbitration- Teaching award	College of Science and Humanities
	1434	1443	Exam Comittee	College of Science and Humanities

Scientific Consultations

#	From	To	Institute	Full-time or Part-time

Volunteer Work

#	From	To	Type of Volunteer	Organization
	1441	1442-1443	Presenting a workshop	All students in society



	1440	1441	Preparing explanatory tools for schools	Middle school students – Ministry of education
	1440	1440	Talent Enrichment	College of science and humanities
	1432	1437	Magic of Physics	College of science and humanities
	1435	1435	Supervision-projects of secondary students	Ministry of education
	1435	1435	Scientific exhibition	Ministry of education

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

	The best Teacher 2019
	Get Excellence Award of Teaching in Jubail college 1433-1434
	CSA pass certificate 1432-1443
	Electronic Courses development (Optics+ Electromagnetism+ Mathematics+ thermal and Statistical Physics+ Scientific Modeling)

Last Update

29-Aug-2022