FACULTY FULL NAME:

POSITION: Lecturer

Personal Data

Nationality | Saudi

Date of Birth |

Department | Physics

Official IAU Email | nalmasudi@iau.edu.sa

Office Phone No. | 37024

Language Proficiency

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

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
17/11/1429h	Master	King Faisal University in Dammam (IAU University Now)	Dammam
23/3/1423h	Bachelor	Girls College of Science in Dammam (IAU University Now)	Dammam
18/10/1444h	PhD	Imam Abdulrahman Bin Faisal University	Dammam

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

PhD	Simulation of Holes Transport in Heterostructures based on Magnetic Semiconductors GaAs/GaMnAs Multi-Barriers
Master	Study of the transport properties of the depletion layer in p-n junction in relation to the efficiency of the solar energy converter
Fellowship	

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Lecturer	College of science- Physics Department	IAU University	Dammam	1430H
Administrator	College of science- Physics Department	IAU University	Dammam	1425H

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
	M.K.EL Adawi,N.S.AL Masudi	The efficiency of the solar converter as a function of the doping degrees and the incident solar spectral photon flux	Canadian Journal on Scientific and Industrial Research
	M.K.EL Adawi,N.S.AL Masudi	The Efficiency of a p-n Solar Diode as a Function of the Recombination Velocity within the Depletion Layer	Optics and Photonics Journal
	Najla S. Al-Shameri[1,2] & Hassen Dakhlaoui[1,2] & Shaffa Almansour[1,2] & Ibtessam Alnaim[1,2]	Spin-Dependent Tunneling of Holes in Heterostructures Based on GaMnAs Semiconductor: Effects of Temperature and Quantum Size	Journal of Superconductivity and Novel Magnetism
	Najla S. Al-Shameri and Hassen Dakhlaoui	Spin-Current Oscillations in Diluted Magnetic Semiconductor Multibarrier GaMnAs/GaAs: Role of Temperature and Bias Voltage	Coatings MDPI
	Najla S. Al-Shameri and Hassen Dakhlaoui	Numerical investigation of quantum tunneling time and spin-current density in GaAs/GaMnAs/GaAs barriers: Role of an applied bias voltage	Physica B: Physics of Condensed Matter

	Hassen Dakhlaoui a,b,*, Mouna Nefzi c, Najla S. Al-Shameri a,b, Alanoud Al Suwaidan a,b, Hadeel Elmobkey a,b, Shaffa Almansour a,b, Ibtessam Alnaim	Magnetic field effect on spin-polarized transport in asymmetric multibarrier based on InAs/GaAs/GaSb systems	Physica B: Physics of Condensed Matter
	Hassen Dakhlaouia,b,∗, Mouna Nefzic, Najla S Al-Shameria,b, Alanoud Al Suwaidana,b, Hadeel. Elmobkeya,b, Shaffa Almansoura,b, Ibtessam Alnaima	Spin-polarized transmission across heterostructure based on an InAs/GaSb/ InGaAs system: Effect of accelerating quantum wells	Chemical Physics Letters
	MK El-Adawi, NS Al-Shameri	On the Depletion Layer	Material Science Research India
	Hassen Dakhlaoui, Walid Belhadj, Fatih Ungan, Najla S Al-Shameri	Linear and nonlinear optical properties in GaAs quantum well based on konwent-like potential: Effects of impurities and structural parameters	Physica E: Low-dimensional Systems and Nanostructures

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)

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	The 4th Saudi International Nanotechnology conference (Since 2016)	(KFUPM) 25-26 October2016	Attendance

Membership of Scientific and Professional Societies and Organizations

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Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Physics I	PHYS 202	Labs
2	General Physics (2)	PHYS 132N	Labs + Lectures (exercises)
3	General Physics (1)	PHYS 101N	Labs + Lectures (exercises)
3	General Physics (1)	PHYS 101N	Lectures
4	General Physics (3)	PHYS 201N	Labs
5	Practical Physics (1)	PHYS 306N	Labs
6	Atomic and molecular spectroscopy		Labs
7	Solid State Physics (2)		Labs
8	Quantum Mechanics (1),(2)		Lectures (exercises)
9	Solid State Physics (1)		Labs
10	Electricity and magnetism (1)		Labs + Lectures (exercises)
11	Electricity and magnetism (2)		Labs
12	Properties of the material and heat		Labs
13	Electronics		Labs
14	Principle of physics		Labs + Lectures (exercises)
15	Physics II	PHYS 206	Lectures
16	Physics I	PHYS 102	Lectures
17	Modern Physics and Introduction to Quantum Mechanics	PHYS 401	Lectures
18	Physics Project Seminar	PHYS 504	Lectures

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

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1			
2			

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

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
	All undergraduate level	21	1443	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
			Member Member Member Member Member Head Member Member Head	Higher Education Scientific Research Physics club Tables and registration courses NCAAA Security & Safety Organize Exam Activity Public relationship

Committee Membership

#	From	To	Position	Organization

Scientific Consultations

#	From	To	Institute	Full-time or Part-time

Volunteer Work

#	From	To	Type of Volunteer	Organization

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

1	Matlab, Mathematica,Fortran
2	

Last Update

DEC,2023