FACULTY FULL NAME: Aeshah Hassan Saed Al-Amri

POSITION Assistant Professor in Computation Chemistry

Personal Data

Nationality | Saudi

Department | Chemistry

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Language Proficiency

Language	Read	Write	Speak
Arabic	√	√	√
English	√	√	√
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2015	**PhD**	King Abdul-Aziz University	Jeddah
2007	**Master**		Jeddah
	Bachelor		Jeddah

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

PhD	Investigation of the Electronic Structure of a Molecular Switch Based on Naphthalene 1-al-4-ol-8-piperidine. Molecular Dynamics of the Excited State.
Master	Electronic Structure and spectra of some Triazolo pyrimidine derivatives
Fellowship	-

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Assistant Professor	Chemistry Department- Science College	2015 to date
Lecture	Chemistry Department- Science College	2009

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Head of the Science Club at IAU.		2016-2017

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
	Aeshah Alamri Shaaban Elroby Rifaat Hilal	Theoretical insight into the structure and bonding characteristics of Bisphenol-A. QTAIM and NBO analyses	June 2018 Journal of Theoretical and Computational Chemistry

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	King Abdulaziz City for Science and Technology	(A-T-34-019)	2014
2	King Abdulaziz City for Science and Technology	(35-37)	2017

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	Jeddah -1st International Conference on Applied Chemistry	Jeddah– (ICAC 2015) King Abdelaziz university	RELATIVE ENERGIES, PROTON TRANSFER, AND MOLECULAR STRUCTURE OF 4- HYDROXY NAPHTH ALDEHYDE-8-PIPERIDIN: A DFT AND QUANTUM TOPOLOGY STUDY.
	The Seventh Annual Conference	2018 -Cairo University	UNDERSTANDING THE PHOTOCHEMICAL MECHANISM AND POLAR REACTION OF BISPHENOL A: DFT STUDY

- Royal Society of Chemistry

Teaching Activities Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	General Chemistry 1(lectures) General Chemistry 1(Lab)	CHEM203	15 lectures 12 labs
	Chemical Kinetics and Reaction Mechanisms .	CHEM 402	12 Lab
	Thermodynamic	CHEM306	12 Lab
	Inorganic chemistry	CHEM208	12 Lab
	Quantum Chemistry	N427	13 lectures
	Organic Chemistry (1)	Chem 113N	13 lectures
	Organic Chemistry (1)	CHEM302	12 Lab - Teaching
	Biochemistry (1)	BIOCH401	12 Lab
	Organic preparations(lectures) 1(Lab)	459 N	13 lectures 12 Lab

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

1-	**General Chemistry, CHEM 203, Course Description**: Theoretical content: Introduction to the states of matter: solid, liquid and gaseous state, gas laws, and kinetic theory of gases. This course includes types of solutions, ideal and non-ideal solutions, and colligative properties, chemical and ionic equilibrium. Thermochemistry, energy changes in chemical reactions, acid base equilibrium, buffer solutions as well. **Practical content:** The topics covered include some experiments on viscosity of liquids, density of liquids and solids, determining the molar mass of volatile liquids measuring, heat of enthalpies, equilibrium constant, pH, acid base titration, buffer solution and buffer capacity.
2-	**Chemical Kinetics and Reaction Mechanisms, CHEM 402, Practical content**: Determination of speed reaction for some reactions of different rate types.
3-	**Thermodynamic CHEM306, Practical Content:** Determination of neutralization, heat of formation, heat of, heat of , heat of decomposition - Approving of Hess's law -Determination of distribution coefficient and Effect of common ion and solubility product.
4-	**Organic Chemistry (1) (lab). CHEM302, Practical content:** Tests for liquid compounds: Aldehyde, ketones, alcohols, Tests for solid compounds: Acids, esters, unsaturated compounds. Aromatic tests: Nitation, sulphonation and Purification of liquids.
5-	**Biochemistry (1) (lab). BIOCH401, Practical content:** Chemical reactions for carbohydrates, protein, fatty acids and fat - Determination of some enzyme and one vitamin
6-	**Organic chemistry Chem 113N** its importance, relationship between the molecular structure and properties of organic compounds. To recognize the functional groups in organic compounds and classification of organic compounds. To know the nomenclature of organic compounds by using IUPAC rules and common names, relationship between the functional groups and reactivity of organic compounds. To recognize the fundamental reactions in organic chemistry (substitution - Addition – elimination).To study the different sections of the aliphatic organic compounds in terms of the nomenclature , structure , physical properties , methods of preparation , chemical reactions and common uses.

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
	Quantum Chemistry	√		√		2017,2018	
	Quantum Chemistry		√			2016	
	Organic preparations		√			2017,2016	
	Organic Chemistry (1)		√			2015	
	Organic Chemistry (1),lab		√			2017	
	General Chemistry 1	√ electronic course	√			2016	2018

Student Academic Supervision and Mentoring

#	Level	Number of Students		From	To
	Different levels	26 students		Oct 2015	Till now

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
	Master	**Synthesis, physical and chemical characterizations of new copper or cobalt alkoxide**	Imam Abdulrahman bin Feisal university	2018

Training courses or programs

#	The name of course or program		
1	National Academic Talent Development Program. King Abdullah University of Science and Technology 2017	14	Workshops of the Academic Leadership
2	Ibn Khaldun Program. University of Imam Abdul Rahman bin Faisal 2017	15	KPIs with NCAAA Training
3	Molecular Structure and Dynamics III (Theoretical Approaches for X-ray Spectra) for four days with a participation from university of Rostock, Germany.	16	Training programs for applications for registration of donors and qualifications(SAQF)
4	Gas phase reactions Catalysis and Molecular Interactions for two days with a participation from Virginia commonwealth university, USA	17	A four-day intensive training program on Developing Core Competencies in Teaching and learning in Higher Education
5	Nonadiabatic phenomena and excited-state dynamics for five days with a participation from Max-planck Institute of Munich, Germany.	18	Independent Applying the QM Rubric (APPQMR)
6	Molecular Structure and Dynamics I for five days with a participation from university of Rostock ,Germany.	19	Implementing Project-Based Learning in Higher Education
7	Workshop of the Databases (Summon &OPAC)	20	Faculty Mentorship Certification Program
8	Searching mechanism in international libraries, journals and scientific service centers in scientific researcher website	21	The training program in the field of emergency response "The management of crises and disasters."
9	Train the trainers (TOT)	22	Nano chemistry and Technology workshop
10	workshops of the situation analysis and orientation by Thomson Reuters	23	Women leadership form in Higher education
11	More than 20 workshop on teaching methods or strategies	24	
12	Workshop developing program and courses learning outcomes according to NQF and ABET	25	Strategic transformation of human resources operations
13	Quality of human resources management structure	26	Human Resources Management

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

Administrative Responsibilities

#	From	To	Position	Organization
	2015	**2016**	Member of the Advisory Committee, Department of Chemistry	Department of Chemistry - IAU

Committee Membership

#	From	To	Position	Organization
	2018	now	Head the exam progress committee	Chemistry department
	2018		Member of QA Committee	Chemistry department
	2015		Member of student advisor	Chemistry department
	2015,2016		Deputy committee tables	Chemistry department
	2016		Quality Management Coordinator.	Chemistry department
	2009		Member of the Environment Friends Committee	Chemistry department

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2016	now	Introducing videos to explain some topics in chemistry for both high school and university students through my YouTube channel	
2	2017, 2018		Presenting a workshop under the title "Leading personality" within the program of the Prince Mohammed Bin Fahd Center for "Young Leadership" Development, **(called The Skills)**	In the Prince Sultan Bin Abdul Aziz Fund for Women's Development and
	16th 2017		Female University Seminar held at King Faisal University in Al-Ahsa.	Aramco company.
3	13th March 2017		For the first time in public education to provide a synchronous electronic lesson of the intermediate grade	Al-Bassam schools - Dammam
	2017,2018		Presenting a workshop under the title EndNote program for IAU student.	Science club in IAU
4	2016,2017		Participation in the educational café to provide the latest strategies in the teaching and evaluation of students	Deanship of Academic Development
5	29th December 2016		Presenting a workshop under the title" using rubric in Graduation Project course".	Vice -Deanship of Quality Development and Academic Accreditation
6	2015		Awareness exhibition (Plastic the danger coming) at the Faculty of Science	Ministry of Labor and Social Development

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

1	Advanced skills in computer
2	Strong administrative and organizational skills.
3	Experienced in problem-solving
4	Work effectively both as team member and independently
5	Excellent communication and IT skills
6	Enthusiastic and committed

Last Update

2018