Sultan Salah Alsalimi

Teaching Assistant

Personal Data

Nationality | Saudi

Department | Mechnical and Energy Engineering Department

Official IAU Email | ssalsalimi@iau.edu.sa

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
Setpt. 2012 – June 2017	Bachelor of Science in Mechanical Engineering	King Saud University	Riyadh, Saudi Arabia

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Full Time Master Students	The George Washington University	Department of Mechanical and Aerospace Engineering - School of Engineering & Applied Science	Washington D.C., U.S	2021-01-11 till date
Full-time Students in INTO USF English Program	University of South Florida	INTO USF English Language Program ELP.	Florida, U.S	Aug. 31, 2020 – Dec. 10, 2020
Teaching Assistant (Scholarship recipient)	IAU	Mechnical and Energy Engineering Department, College of Engineering – Imam Abdulrahman Bin Faisal University – Dammam – Saudi Arabia	KSA	Sep. 2018 – till date
Engineer Trainee	Électricité de France (EDF)	Internship in the French electric utility company	Tours, France	Sep. 2017 – Oct. 2017

Engineer Trainee	Saudi Electricity Company (SEC)	Internship in the Saudi Electric utility company, 9th power plant.	Riyadh, KSA	July 2017 – Sept. 2017
Part of a consultation team	GSCO	Gulf Specialized company (GSCO), participatation with the time for rising the productivity of the company	Riyadh, KSA	June 2015 – Aug. 2015
Trainee		International Company for Human Management and Development	Riyadh, KSA	Oct. 2010 – June 2016

Scientific Achievements

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Second Solar & Wind Energy Symposium & Exhibition – on Renewable Energy Training – a National Need by Department of Mechanical & Energy Engineering	Colleage of Engineering – Imam Abdulrahman Bin Faisal University 2019-03-12 to 2019-03-14	Orgznizer and assistance

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Renewable Energy	ENRG 403	Labs
2	Fluid Mechanics	ENRG 314	Labs
3	Thermodynamics	ENRG 308	Labs

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

1	**Renewable Energy – ENRG 313:** This is an application oriented course that includes performance investigation analysis and design of various renewable energy systems with emphasis on solar, wind and geothermal energy systems.
2	**Fluid Mechanics - ENRG 314:** A study of fluid properties and their significance; fluid statics, conservation equations of fluid dynamics, use of differential and finite control volume analysis with continuity, momentum, and energy equations, Bernoulli and Euler equations, vorticity, potential flow theory, lift and drag, compressible fluid flow, turbomachinery, laminar and turbulent boundary layers; open–channel uniform and non-uniform flow; flow through pipes; branching of pipes and pipe networks;

	dimensional analysis and similitude. Laboratory exercises in flow measurement, open channel flow, pipe friction, physical modeling, and data collection.
3	**Thermodynamics – ENRG 308:** This course covers major thermodynamics principles that are useful to engineering applications. The student will learn thermodynamics basic concepts and definitions; properties of pure substances; system and control volume; working fluid, processes and cycles; work, heat and energy; ideal gases, state equation. Pure substance and phase changes; thermal equilibrium. First law of thermodynamics, internal energy and enthalpy. Applications of first law of thermodynamics for closed and open systems; second law of thermodynamics; Carnot cycle, entropy; reversible and irreversible systems. Applications such as: vapor power systems, gas power systems, fuel and combustion, refrigeration, heat pumps, etc. that will be applied to modern engineering systems.

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

Committee Membership

#	From	To	Position	Organization
1	2018-09-27	2019	Member in Public Relations and Media Committee.	Colleage of Engineering – Imam Abdulrahman Bin Faisal University

Volunteer Work

#	Type of Volunteer and Organization
1	Coordination office for the evaluation of performance and international tests

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

1	MS Office
2	MATLAB
3	C Language
4	Auto CAD
5	SolidWorks
6	Zoom meeting
7	Blackboard
8	Member in a Mechanical Engineering club, King Saud University
9	Project Management Professional (PMP), Riyadh, SA

Last Update 14/03/2021