Fahad Bin Sultan University
Faculty of Engineering
Mechanical Engineering Department

Mohammed F. F. Eldosoky

Education

Degree	Discipline	Institution	Year
Ph.D.	Mechanical Engineering	University of Leicester, UK	2009
MSC	Mechanical Power Engineering	Assiut University, Egypt	2000
BSC	Mechanical Power Engineering	Assiut University, Egypt	1992

Academic experience

Institution	Rank	Title	Dates	Full Time or Part Time
Fahad Bin Sultan University	Associate professor		2020-Now	Full time
Alasala Colleges	Associate professor		2019-2020	Full time
Assiut University, Assiut, Egypt	Associate professor		2018-2019 (on leave of absence)	Full time
Assiut University, Assiut, Egypt	Assistant Professor		2009 -2018	Full time
Assiut University, Assiut, Egypt	Lecturer		2000-2004	Full time
Assiut University, Assiut, Egypt	Demonstrator TA		1993-2000	Full time

Non-Academic Experience

Company or Entity	Title	Brief Description of Position	Dates	Full Time or Part Time
The consultancy office of Engineering, Assiut University	Consultant	Preparing designs and projects, supervising implementation, conducting laboratory and field tests and experiments, and writing technical specifications, preparing assessments, and deciding on bids and offers.	2009-2019	Full time

Subjects taught over the past two academic years

Course code	Course Name	Institution	Credits
REE 460	Wind Energy	Fahad Bin Sultan	3 c.h
MECH 220	Dynamics	Fahad Bin Sultan	3 c.h
MECH 231	Strength of Materials	Fahad Bin Sultan	3 c.h
MECH 330	Mechanical Design	Fahad Bin Sultan	3 c.h
MECH 341	Fluid Mechanics	Fahad Bin Sultan	3 c.h
MECH 343	Heat Transfer Lab	Fahad Bin Sultan	1 c.h
MECH 344	Fluid Mechanics Lab	Fahad Bin Sultan	1 c.h
MECH 434	Mechanical Vibrations	Fahad Bin Sultan	3 c.h
MECH 490	Control Systems	Fahad Bin Sultan	3 c.h
MECH 491	Control Systems lab	Fahad Bin Sultan	1 c.h
MECH 498	Final Year Project I	Fahad Bin Sultan	1 c.h
MECH 499	Final Year Project II	Fahad Bin Sultan	3 c.h

Certifications or professional registrations

Current membership in professional organizations

- Member of Egyptian Engineering syndicate, EES
- Member of the Industrial Technology Transfer Unit, ITTU

Honors and Awards

- Science and Technology Development Fund, [STDF] project, Co-PI.

Service Activities

- CFD grid generation of a one and half shrouded turbine stage using Alstom grid generation Code, Alstom Power generation, Rugby-UK, 2008
- Training Program of CAD/CAM, Micro controller, Arduino Application, Korea University of Technology and Education, 2019.

Principal Publications and Presentations of the Last Five Years

1- Numerical Investigation on the Effect of the Azimuthal Deviation on Performance of Equal Speed Co-Rotating Double Rotor Small-Scale Horizontal-Axis Wind Turbine. AAA Morsi, **MFF El-Dosoky**, OH Othman, MMS Ahmed, AHH Ali. JES. Journal of Engineering Sciences 52 (1), 16-35, 2024.

2- Numerical Investigation of Film Cooling Effectiveness and Flow Field Characteristics over a Flat Plate with in-Hole Swirl Generator. A Ibrahim, O Hassan, **M El-Dosoky**, M Abdelghany. JES. Journal of Engineering Sciences 51 (6), 53-80, 2023.

3- Numerical investigation of a hybrid double layer microchannel heat sink with jet impingement. YT Mostafa, **MF El-Dosoky**, M Abdelgawad, O Hassan. International Journal of Thermofluids 20, 100465, 2023.

4- Energy and exergy assessment of new designed solar air heater of V-shaped transverse finned absorber at single-and double-pass flow conditions. S Abo-Elfadl, **MF El-Dosoky**, H Hassan. Environmental Science and Pollution Research 28 (48), 69074-69092, 2021.

5- Energy, exergy, and economic analysis of tubular solar air heater with porous material: an experimental study. S Abo-Elfadl, MS Yousef, **MF El-Dosoky**, H Hassan. Applied Thermal Engineering 196, 117294, 2020.

6- Energy and exergy assessment of integrating reflectors on thermal energy storage of evacuated tube solar collector-heat pipe system. S Abo-Elfadl, H Hassan, **MF El-Dosoky**. Solar Energy 209, 470-484, 2020.

7- An experimental investigation of the performance of new design of solar air heater (tubular). H Hassan, S Abo-Elfadl**, MF El-Dosoky**. Renewable Energy 151, 1055-106698, 2020.

8- Study of the performance of double pass solar air heater of a new designed absorber: An experimental work S Abo-Elfadl, H Hassan, **MF El-Dosoky**. Solar Energy 198, 479-489, 2020.

9- A hybrid RANS model of wing-body junction flow. A Rona, **MFF El-Dosoky**, DS Adebayo. European Journal of Mechanics-B/Fluids 79, 283-296, 2020.

10- Numerical simulation of condensate removal from gas channels of PEM fuel cells using corrugated walls. **M El-Dosoky**, M Ahmed, N Ashgriz. International Journal of Energy Research 42 (4), 1664-1676. 2018.

11- Enhancing the Performance of an Axial Compressor Cascade using Vortex Generators. D AM, **El-Dosoky MF**, A MA. Journal of Aeronautics & Aerospace Engineering 5 (4).2016.

12- Development and Validation of an In-House CFD Code for Environmental Flow Simulation Using Measurements in Atmospheric Boundary Layer Wind Tunnel. HMS [4] Walid J. Al-Nahari , **Mohammed F. F. El-Dosoky**, Mohammed M. Abdelghany. Journal of Engineering Sciences 44 (01), PP. 54 – 71. 2016.

13- Effect of a new vortex generator on the performance of an axial compressor cascade at design and off-design conditions. AM Diaa, **MF El-Dosoky**, MA Ahmed, OE Abdelhafez. ASME International Mechanical Engineering Congress and Exposition Vol 57342. 2015.