Curriculum Vitae

PERSONAL DETAILS

Name	Shuruq Yusuf Shawish
Marital Status	Married (3 children)
Date of Birth	30/7/1985
Nationality	Jordanian
Term Address	School of Applied Technical Sciences German Jordanian University Amman 11180 Jordan
E-mail	Shorouq.shaweesh@gju.edu.jo
Alternative E-mail	shuruqshawish@gmail.com
Current Position	**Instructor at German Jordanian University**

EDUCATION

2009 - 2012

M.Sc. in Chemical Engineering (Thermodynamics)
The University of Jordan, Amman, Jordan. With a **GPA of 4.00 out of 4.00** equivalent to excellent.
Thesis title: *Influence of Cosolvents on the Solubility of Solid Solutes in Supercritical Carbon Dioxide*.

2003 – 2008

B.Sc. in Chemical Engineering
The University of Jordan, Amman, Jordan. With a **GPA of 3.91 out of 4.00** equivalent to excellent and ranked the first in class.
Thesis title: *The Production of Uranium Hexafluoride (UF_6) from Yellow Cake (U_3O_8)*

AWARDS AND SCHOLARSHIPS

- Award graduation projects for engineering students in Jordanian universities: First Prize.
- Full scholarship to study a master's degree from the University of Jordan.
- Autodesk Certified Professional – AutoCAD 2018 exam

MEMBERSHIP ASSOCIATION

- Jordanian Engineers Association, Chemical Engineering, Member.

WORK EXPERIENCE

Dec. 2017 - Present	Instructor at Mechanical Engineering Department, German Jordanian University.
Oct. 2016 – Dec. 2017	Full time lecturer at Mechanical Engineering Department, German Jordanian University.
Feb. 2012 – Sep. 2016	Teaching Assistant with Master Degree at Chemical Engineering Department, University of Jordan.
Jan. 2009 – Feb. 2012	Teaching Assistant at Chemical Engineering Department, University of Jordan.
Apr. 2008 – Dec. 2008	Engineer at Environmental Research Center, Royal Scientific Society, Amman - Jordan
June 2007 – Aug. 2007	Trainer at Industrial Chemistry Center, Royal Scientific Center, Amman - Jordan

COURSES DESCRIPTION:

I teach the following courses at German Jordanian University:

- **Computer Aided Engineering Drawing (ME111).**
- **Thermodynamics (TME221):**
- **Thermofluids Lab (TME323).**
- **Thermofluids (ME223).**

I taught the following courses at University of Jordan:

- **Computer Applications in Chemical Engineering:** An applied course focusing on use of Internet resources and computer packages to equip the students with the essentials of using computers in chemical engineering. MATLAB.
- **Chemical Engineering Principles (1):** The role of the chemical engineer. Units and dimensions. Conversion of units. Systems of units. Dimensional homogeneity. Process data representation. Process and process variables. Degrees of freedom analysis. Elementary mathematical tools for solving balance equations. Material balances for nonreactive and reactive systems. Material balance on single and multiphase systems.
- **Chemical Engineering Principles (2):** The first law of thermodynamics. Energy balance on closed system. Energy balance on open systems at steady state. Energy balances on nonreactive and reactive systems. Material and energy balances. Balances on transient systems.

- **Principles in General Safety:** Occupational health. Toxicity. Types of environments. Dusts. Fire triangle. Flash point. Combustion. Home fire safety. Personal protective equipment. Safety-storage. First aid.
- **Jordanian Industries:** Solid waste recycling. Phosphates. Petroleum refinery. Oil shale. Plastics and polymers. Waste water treatment. Cement production. Water desalination.
- **Chemical Engineering Laboratory (1):** Selected experiments drawn from Fluid Mechanics and Thermodynamics courses. For example pumps, fans, jets, pressure drops in closed and open conduits, flow measurements and refrigeration, air conditioning, vapor-liquid equilibrium, liquid-liquid equilibrium.
- **Chemical Engineering Laboratory (3):** Selected experiments drawn from Mass Transfer and Heat and Mass Transfer courses. For example: Wetted wall column, absorption, distillation, extraction, cooling tower performance, tray drier, evaporation and adsorption.
- **Chemical Engineering Laboratory (4):** Selected experiments drawn from Chemical Engineering Reaction and Process Dynamics and Control courses. For example: determination of reaction kinetics, use of plug flow and continuous flow stirred tank reactors, measurement of residence time distributions. Simulation and analogue computing. Level, temperature, pressure control.

Also, I supervised the following laboratories at the Mechanical Engineering Department, University of Jordan:

- System Dynamics and Control Laboratory.
- Thermodynamics Laboratory.
- Computer Programming for Engineers: MATLAB

CONFERENCES

- Al-Matar, A; **Shawish, Sh**, "Influence of Cosolvents on the Solubility of Cholesterol in Supercritical Carbon Dioxide", The Sixth Jordan International Chemical Engineering Conference, 12-14 March 2012, Amman, Jordan.

- **Shuruq Shawish**, Rafat Al-Waked, "Enhancing the Drying Process of Coated Abrasives", 1st International Conference on Mechanical, Aeronautical, and Industrial Engineering Technologies (MechaniTek 2020), 16-18 June 2020 (Remotely), Irbid, Jordan.

JOURNAL PUBLICATIONS

- Sameer Al-Dahidi, Salah Al-Nazer, Osama Ayadi, **Shuruq Shawish**, and Nahed Omran, Analysis of the Effects of Cell Temperature on the Predictability of the Solar Photovoltaic Power Production, International Journal of Energy Economics and Policy, 2020, 10(5), 208-219.

REFERENCES

- Prof. Ala'aldeen Al-Halhouli, Full Professor, School of Applied Technical Sciences, German Jordanian University, Madaba, Jordan. Phone: +9626 429 4444 extension 4500, mobile: +962 796565943, email: alaaldeen.alhalhouli@gju.edu.jo.

- Dr. Ali Al-Matar, Associate Professor, Chemical Engineering Department, University of Jordan, Amman 11942, Jordan. Phone: +9626 535 5000 extension 22890, mobile: +962 777 182089, fax: +9626 530 08 13, email: aalmatar@ju.edu.jo.

- Dr. Musa Abdullah, Associate Professor, Mechanical Engineering Department, University of Jordan, Amman 11942, Jordan. Phone: +9626 535 5000 extension 22800, mobile: +962 77796 6264, fax: +9626 530 08 13, email: m.abdalla@ju.edu.jo.