

Assistant Professor
Department of electric power engineering
Damascus University-Syria

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Skill Highlights

- Maturity and flexibility in work.
- Good communication skills.
- Ability to work within a team and with individual effort.
- Scientific projects management.

Languages

- Arabic 100%
- English
- French

Hobbies

- Writing
- Reading
- Photography
- Sport

Fouad SALHA

SUMMARY

At the beginning of my career, after obtaining the license in electrical power engineering, I was appointed as a teaching engineer in the department of electric Power at Tishrine University- Lattakia. This was because of my superiority and advanced ranking. That continued from 2002 to 2005. In 2005, I received a scholarship to study a master's and doctorate in France. After my return from France, I worked as a Dr Lecturer at Tishreen university from 2011 to 2015. Considering that the Ministry of Electric Energy had co-financed the scholarship, I had to work with this ministry at the public establishment for Electric power distribution, from 2015 until 2018. From 2018 until now, I am an assistant professor in the department of electrical Energy at Damascus University-Syria.

EXPERIENCE

- **Teacher engineer at the faculty of electrical engineering – Tichrine University –Latakkia –Syria (2002-2005).**
- **Dr.Eng at Public Establishment for Distribution of Electric energy-Damascus- Syria (2011-2015).**
- **Assistant Professor at Electric power department of Damascus University, Syria (2018- untill October (2024)).**
  - **Assistant Professor at Alayen Iraqi university, IRAQ October (2024) TILL NOW**

EDUCATION

- **Bachelor: Electric Engineering – 2001 Tishrine University-Latakkia-syria.**
- **Postgraduate diploma: Electric Power System- 2003 Tishrine University-Latakkia-syria.**
- **Master of research: Electric Engineering– 2006 Ecole Centrale de Lyon-France (stability of multi-source electrical networks by control H∞)**
- **PHD degree: Distributed Generation and Microgrids – 2010 - Ecole Centrale de Lille – France (Microgrids, study and coordination of protections for the generators and network)**

ADDITIONAL TASKS

- **Member of many Master's jury at Damascus University.**
- **Member of committees for evaluating PhD and MSc research projects.**
- **Member of Scientific committee of Al-Basel-Fair for INVENTION and INNOVETION 2021.**
- **Member of Scientific committee of The National Competition for Creativity and Invention 2022.**
- **Member of Scientific committee of Al-Basel-Fair for INVENTION and INNOVETION 2023.**
- **Member of Accreditation and Quality Committee at Alayen Iraqi University in Iraq**

ACADEMIC TEACHING EXPERIENCES

Undergraduate University Courses	Type Of University Course	Year/Departement/University	Number of h/week
ELECTRICAL CIRCUITS 1: *DC circuits and their analysis methods *AC circuits concepts and electric resonance	Theoretical	2nd year, Department of computer engineering and automation. Damascus University	4
ELECTRIC CIRCUITS /2/: *Two Ports circuits, *Transient states in electric circuits. *Fourier analysis of electric circuits. *Three phases circuits	Theoretical	2nd year, Department of Electronics and Communications Engineering, Damascus University	4
PROGRAMMING 3: Programming and simulation using MatLab	Theoretical	2nd year, Department of Electric Power Engineering Damascus University	4
CONCEPTS OF ELECTRIC ENGINEERING: *Concepts of electrical elements and analysis of their circuits. *Concept of electromagnetism in electric circuits	Theoretical	3rd year, Department of Mechanical Design Engineering, Damascus University	4
AUTOMATIC CONTROL2 *Representation of continuous systems. *Traditional control of systems.	Theoretical	4rd year, Department of Electric Power Engineering Damascus University	4

*Representation and control of discrete systems *programmable logic controller.			
ELECTRICAL DISTRIBUTED GENERATION: Types of Distributed Generation (wind, solar, gas micro turbine, synchronous generation) and their control system. *Smart Grids. *Microgrids	Theoretical	Fifth year, Department of Electric Power Engineering and renewable energies Damascus University	4
ELECTRICAL POWER SYSTEM ANALYSIS: Formation of the node impedance matrix ZBUS. – Calculation of fault currents in electrical networks using the ZBUS matrix. – Analysis of the stability of electrical power systems. – Control of electrical power systems	Theoretical	Fifth year, Department of Electric Power Engineering and renewable energies Damascus University	4
PROTECTION OF ELECTRICAL POWER SYSTEMS –Protection of ring and radial electric grids by overcurrent and distance protection. –Protection of electric generation stations–Protection of electrical transforming stations – protection of electric motors –Protection of bus bars in electrical stations.	Theoretical	Fifth year, Department of Electric Power Engineering and renewable energies Damascus University	4

ELECTRICAL POWER SYSTEM ANALYSIS:	Theoretical	Fifth year, Department of Electric Power Engineering, Branch of Damascus University–ALSWEIDA	4
PROTECTION OF ELECTRICAL POWER SYSTEMS	Theoretical	Fifth year, Department of Electric Power Engineering, Branch of Damascus University–ALSWEIDA	4
Postgraduate University Courses			
ELECTRIC DRIVE AND AUTOMATIC CONTROL: – Representation of time variant and invariant continuous systems with multiple inputs and multiple outputs using state space representation – Control by return of state space variables.	Theoretical	1st year: Master of electrical power system engineering Damascus University	2
ELECTRIC DRIVE AND AUTOMATIC CONTROL: – Representation of time variant and invariant continuous systems with multiple inputs and multiple outputs using state space representation – Control by return of state space variables.	Theoretical	1st year: Master of renewable energies engineering Damascus University	2
MICRO–PROCESSORS AND PROGRAMMABLE LOGIC CONTROLLER: Arduino and Pic and PLC programming and applications	Theoretical	1st year Master of electrical power system engineering and Master of renewable energies engineering Damascus University	2

PROJECT TITLE	TYPE	UNIVERSITY	NAME OF STUDENT
Study and modeling of a distributed generation station consisting of a solar cell generator with a super capacitor	Undergraduate 2018/2019	Damascus university-Department of electric power engineering	Alaa ALMOHAMMAD Zaid SMADY Fadi ALRAWAS
Controlling plastic injection machine using PLC and HMI (Human Machine Interface)	Undergraduate 2019/2020	Damascus university-Department of electric power engineering	Mohammad ALMOHAMMAD Alaa ALSAADI
Design and implementation of a laboratory model of an automated load shedding unit using Arduino	Undergraduate 2019/2020	Damascus university-Branch ALSWEIDA Department of electric power engineering	Reem Bo HASSOUN Rouba ALSAHNAWY Braa ALHADAWY Raymaa ABOSHDEED
ALQADAM water pumping station automation using PLC	Undergraduate 2019/2020	Damascus university-Department of electric power engineering	Mamdouh HOUSSAM ALDEEN Adnan KHALED Anas TOURKMANI
Designing an automated model to control a smart fish farm	Undergraduate 2020/2021	Damascus university-Department of electric power engineering	Bilal ALOKDAH
Design and implementation of an automated intelligent traffic signal management system to reduce congestion using PLC	Undergraduate 2020/2021	Damascus university-Department of electric power engineering	Adnan ALMAHMOUD Kheder DEEB
Electric power transmission	Undergraduate	Damascus university-	

using HVDC	2021/2022	Department of electric power engineering	Hazem RAFEH Odae KASSAM
Improving energy management systems in microgrids	Co-supervisor (PH.D) (In progress)	Damascus university-Department of electric power engineering	Ahmad MINI
Modern technologies in faults detecting in electrical distribution networks	Co-supervisor (PH.D) excellent grade.	Damascus university-Department of electric power engineering	Nada ALAYNIEH THESIS was Defensed on 8/8/2024
A study of effect of integration a wind power station on the protection system in the 20kV Syrian distribution network.	Co-supervisor (Master) (In progress Final stage)	Damascus university-Department of electric power engineering	Raghad TABBAH
Energy demand management in smart grids using the multi agent system: an application on a reference microgrid	Supervisor (Master) (excellent grade.)	Damascus university-Department of electric power engineering	Mona Rizk THESIS was Defensed on 2/10/2024
Smart distributed substations used to convenient forming of smart microgrids	Supervisor (Master) (excellent grade.)	Damascus university-Department of electric power engineering	Paula Mylaneh THESIS was Defensed on 24/9/2024

COMPUTER AND APPLIED SKILLS:

- Modeling and programming using the MATLAB.
- Modeling and simulation of electrical systems using Real Time Simulation using Power Hardware In the Loop PHIL method using RT-LAB real time simulator.
- Programming Arduino, PiC and PLC controllers.
- ETAP
- HOMMER

Publications المقالات

[1]	**Secondary Frequency regulation in islanded microgrids** **Fouad SALHA** **13 th International Conference on Smart Grid (icSmartGrid) Glasgow, United Kingdom 27-29 May 2025** **Electronic ISBN:979-8-3315-2557-6** **Print on Demand(PoD) ISBN:979-8-3315-2558-3** **DOI: 10.1109/icSmartGrid66138.2025.11071783**
[2]	**Improving the Synchronization Conditions of Grid-Connected PV generators using Kalman State Estimator** **FOUAD SALHA** **Damascus University Journal of Engineering Sciences** **2023**
[3]	**Improving the behavior of Loss Of Mains protection in electrical distribution networks with distributed generation by using of performance curves** **Fouad SALHA** **Tishreen University Journal. Engineering Sciences. Volume (44), Issue (1), 2022**
[4]	**Identification of fault location in power distribution system with distributed generation using linear optimization technique** **Mr. Nada Al-Ainieh, Dr. Fouad Salha, and Prof. Dr. Mustafa Al-Hazouri** **Damascus University Journal of Engineering Sciences** **Vo.44, No.(3) -2025: 395 -422**
[5]	**"Virtual Resistance Principle for the Overcurrent Protection of PWM Voltage Source Inverter"** IEEE PES on Innovative Smart Grid Technologies (ISGT) Gothenburg-Sweden 11-13/10/ 2010, 10-2010 **Fouad SALHA**, Frédéric COLAS, Xavier GUILLAUD
[6]	**"Dynamic Behavior Analysis of a Voltage Source Inverter for MicroGrid Applications"** IEEE PES General Meeting ,Minneapolis-USA, July 25 - 29, 2010 **Fouad SALHA**, Frédéric COLAS, Xavier GUILLAUD
[7]	**"Efficient Dimensionality reduction of the Directional Overcurrent Relays Optimal Coordination Problem"** International Journal of Electrical and Computer EngineeringVol:3, No:10, 2009 **Fouad SALHA,** Xavier GUILLAUD
[8]	**"Grid Connected Inverter Behavior with an Output LC Filter under Voltage Sag Operation"** Proceedings of the 13th Conference EPE, Barcelone, 8 – 10 september 2009 **Fouad SALHA,** Frédéric COLAS, Xavier GUILLAUD

[9]	**"Dynamic Performance Analysis of a LC Filter Grid Connected Gas Turbine under Voltage Sag Operation"** ELECTROMOTION – EPE Chapter 'Electric Drives', Lille 7-2009 **Fouad SALHA**, Frédéric COLAS, Xavier GUILLAUD
[10]	**"Power Hardware In the Loop real-time simulation of an LCoutput filter inverter"** 14th International Power Electronics and Motion Control Conference. EPE-PEMC 2010 Ohrid, Republic of Macedonia, publisher IEEE Colas, Frédéric; **Fouad SALHA,**; Guillaud, Xavier
[11]	**"Use of real time simulation to validate primary frequency control with wind turbine"** IEEE PES General Meeting, Pittsburg, 20-24 juillet 2008. Vincent COURTECUISSE, Mostafa EL MOKADEM, Xavier GUILLAUD, **Fouad SALHA**, Benoît ROBYNS
[12]	**"Real-time simulation for distributed generation in power system"** Eurosim 2007, Lubjana, 6-2007 Xavier GUILLAUD, P VIENNE, Philippe DEGOBERT, **Fouad SALHA**