

MARYAM AMER

SAFFO



I am Lecturer at the Computer Engineering Department, AL- Farabi University College, Iraq. I had an MSc degree in Computer Engineering Techniques in 2012. My main work experience involves teaching I held several lecturing positions since 2011. I am committed to quality performance, and I can learn new procedures. Team player, self-motivated and can work in a high-pressure environment. I am a well-organized person that never missed a deadline. Can communicate and give support to students from different levels of understanding.



MSc. Computer Engineering Techniques | Electrical and Electronic Technical College, Middle Technical University, Iraq

2010 – 2012

Thesis Title: Hardware Implementation of Elliptic Curve Cryptography Based on FPGA.

B.Sc Computer Engineering Techniques | Electrical and Electronic Technical College, Middle Technical University, Iraq

2006 – 2010

Project Title: Applications by using Programmable Interface Controller” [H/W & S/W].



EXPERIENCE

Lecturer (Full time) | Al-Farabi University College, Iraq

2013 – PRESENT

My main expertise is lecturing and Lab supervising. I was also, held the position of department coordinator in 2014-2015. I am responsible for module preparation and design, giving lectures to a group of undergraduate students generally around (60) students, grading the students and helping them when it needed with their assignments. I was responsible for the following units:

- Microprocessors and Microcomputers I, Year 2, Computer Engineering Department, 2018-present.
- Computer Architecture I, Year 3, Computer Engineering Department, 2017-present.
- Fundamentals of Digital Logic Systems, Year 1, Computer Engineering department, 2013-2018.
- Cryptography & Computer Security, year 4, Computer Engineering department, 2016-2017.
- Digital System Design, Year 2, Computer Engineering department, 2014-2015.
- Microprocessors & Microcomputers I, Year 2, Computer Engineering department, 2014-2015.
- Computer Programming, Year 1, Civil Engineering department, 2013-2014.

I have supervised 4 undergraduate final year projects for example:

- "Implementation of Face Recognition System for Home Security using Arduino", Computer Engineering department, 2020.
- "A Secure Visual Cryptography for Colour Images", Computer Engineering department, 2019.
- "Secure E-Learning using Data Mining", Computer Engineering department, 2018.
- "Arduino Home Security System", Computer Engineering department, 2017.

I am also part of several committees for example:

- Member of Quality and Accreditation Committee 2018-2019.
- Member of Laboratory Quality ranking for (Good Laboratory Practice) GLP Committee 2016-2019.
- College Council Coordinator 2017-2019.
- Member of Central Examination Committee 2014-2016.

Teaching Assistant (Part-time) | Middle Technical University, Iraq

2011 – 2014

Mainly I was responsible for helping postgraduate students (Master students in Computer Engineering Techniques) while they did their lab work and made sure that the microprocessors computers at the Lab work properly:

- Microprocessor-Based System Design Lab., 2013-2014.
- Digital Integrated Circuits Lab., 2012-2013.
- Microprocessor Lab., 2011-2012.

Lecturer (Part-time) | Middle Technical University, Iraq

2012 – 2013

I was responsible for lecturing and Lab supervising students (B.Sc. students in Computer Engineering Techniques). I am also responsible for module preparation and design, giving lectures to a group of undergraduate students generally around (40) students, grading the students and helping them when it needed with their assignments. I was responsible for the unit AutoCad, Year 1, Computer Engineering Techniques Department, 2012-2013.

Lecturer (full time) | Al-Nosor University College, Iraq

2012– 2013

I was responsible for helping undergraduate students (B.Sc. students in Computer Engineering Techniques) while they did their lab work and made sure that the computers at the Lab work properly. I was responsible for the unit Electronic and Electrical Workshop, Year 1, Computer Engineering Techniques Department, 2012-2013.

Alongside I am:

- Held the position of department coordinator, Computer Engineering Techniques, 2012-2013.
- Member of Central Examination Committee 2012-2013.

Teaching Assistant (Part-time) | Dijla University College, Iraq

2011 – 2012

I was responsible for helping undergraduate students (B.Sc. students in Computer Engineering Techniques) in the Distributed Control Lab, Year 4. while they did their lab work and made sure that the computers at the Lab work properly.



SKILLS

- Excellent experience in programming using C++, Visual Basic, VHDL, Python and Matlab.
- Excellent experience in circuits design using VHDL and Xilinx System Generator.
- Excellent experience in Computer Maintenance.
- Office Tools: excellent experience in using Microsoft Office (Word, PowerPoint, Excel, Outlook ...etc.).
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- **Language skills**
 - Arabic mother tongue.
 - English.



PUBLICATIONS AND MANUSCRIPTS

- F. Hasan, M. Saffo, "FPGA Hardware Co-Simulation of Image Encryption Using Stream Cipher Based on Chaotic Maps", *Sensing and Imaging*, 21(1), 35 (2020), PP. 1-22.
- F. Hasan and M. Saffo, "FPGA Hardware Co-Simulation of Image Encryption using Hybrid Chaotic Maps Based Stream Cipher", *International Journal of Engineering and Advanced Technology (IJEAT)*, 9,2020, PP. 215-225.
- S. Omran and M. Saffo "Hardware Implementation of Elliptic Curve Cryptography on FPGAs", *Iraq Commission for Computers and Informatics, Baghdad-Iraq*, 17-18/12/2012.



TRAINING COURSES AND ACADEMIC CITIZENSHIP

- Full-Member of Organization for Women in Science for the Developing World (OWSD), 2019.
- Accreditation of Information Security for Computer laboratories according to ISO 27001, Continuous Education Center, University of Technology, Baghdad/Iraq, 04/05/2019-08/05/2019.
- Accreditation of Computer laboratories according to GLP (Good Laboratory Practice), Continuous Education Center, University of Technology, Baghdad/Iraq, 27/04/2019-02/05/2019.
- Accreditation of laboratories according to ISO 17025, Continuous Education Center, University of Technology, Baghdad/Iraq, 15/10/2017- 19/10/2017.
- Teaching Methods, Continuous Education and Information Technology Department, Al-Nahrain University, Baghdad/Iraq, 4/2/2017 - 16/2/2017.