
CURRICULUM VITAE

Professional summary :

University teacher 15 years (physics, laser principle , laser designing, laser application ,and atomic physics) researcher in laser detection (direct and heterodyne detection) ,quality assurance trainer , expert of quality with UNESCO for Higher education, manager at ministry of higher education

.

Title: Assistant Professor since 2015

Full name: **Mahdi S. Edan Aljobory**

Mobile: 720-243-2666

Email: mahdiedan@yahoo.com

Education:

Ph.D. in Applied Physics, from University of Technology, Baghdad, Iraq, 2002

M.Sc. in Laser Physics, from University of Technology, Baghdad, Iraq, 1994

B.Sc. in Physics, from Almustansiriya University, Baghdad, Iraq, 1989

Employment History:

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- Lecturer at Department of Computer Science, University of Technology, Baghdad, Iraq, 1993-1995
 - Lecturer at National University of Taz, Yemen, 1995-1997
 - Lecturer at School of Applied Sciences, University of Technology, Baghdad, Iraq, 1997-2003
 - Executive Manager at Mecca Topnotch Co. for Technology, KSA, 2003-2005
 - Supervisor of Development at Mecca Institute, Jeddah, KSA, 2005-2006
 - Supervisor at Alhammad Co., KSA, Qatar and UAE, 2006-2008
 - Staff Member at Department of Quality Assurance and Accreditation, Ministry of Higher Education and Scientific Research (MOHESR), Baghdad, Iraq, 2000-2008
 - Head of Department of Quality Assurance and Accreditation, Ministry of Higher Education and Scientific Research, Baghdad, Iraq, 2008-2012
 - Lecturer at College of Management and Economy, University of Baghdad, Baghdad, Iraq, 2012-2013
 - Supervisor of ABET project in Iraq, 2013
 - Head of Department of International Accreditation, Ministry of Higher Education and Scientific Research, Baghdad, Iraq, 2013-2014
 - Consultant for Scientific and Higher Education Affairs, Presidency of Iraqi Parliament, 2014-2018
 - Principal supervisor of Quality Assurance in Higher Education Institutions in Iraq, 2015-2016
 - Lecturer at Al-Iraqia University for undergraduate physics courses, 2013-2018
 - Leader of quality assurance and academic accreditation team at Ministry of Higher education ,Iraq, 2010-2018
 - Sabbatical year at Missouri University of Science and Technology (Missouri S&T) Rolla, MO 65409, USA - (Jan 1st 2019 Jan 1st 2020)

Practical Experiences and Skills:

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- Responsible of performing quality assurance and accreditation program in higher education institutions in Iraq in light the contemporary international reality, 2008
 - Organization and management of many symposia, workshops and training courses on quality assurance and academic accreditation for leaders and staff members in Iraqi universities, 2008-2010
 - Coordinator with UNESCO to sponsor quality assurance programs in Iraqi higher education institutions since 2010
 - Performing of pioneering project sponsored by UNESCO on quality assurance in Iraqi higher education institutions including 18 governmental universities, since 2011
 - Appreciated by UNESCO office in Iraq for my efforts in the previous project, 2014
 - Many published articles in specialized scientific journals inside and outside Iraq, 2001-2016
 - Many participations in specialized scientific conferences inside and outside Iraq, 2001-2016
 - Member of Iraqi Physics Society since 1998
 - Member of Iraqi Association of University Lecturers since 2005
 - Member of Iraqi Society for Alternative and Renewable Energy Sources and Techniques since 2008
 - Board member of Iraqi Society for Alternative and Renewable Energy Sources and Techniques since 2013
 - Training and management of electrical power projects since 2000
 - Reviewer for Iraqi Journal of Applied Physics, 2010-2017
 - Researcher on Photonics and Optoelectronics at Al-Iraqia University, 2013-2018
 - Good user of computers, scientific and engineering software, office programs, internet and electronic mail and archive programs

Taught Courses:

- **Electronics Physics** at Department of Computer Science, University of Technology, Baghdad, Iraq
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- **Medical Physics** at Division of Medical Science, National University of Taz, Yemen
 - **Solid State Physics** at Division of Educational Physics, National University of Taz, Yemen
 - **Electronics** at Division of Educational Physics, National University of Taz, Yemen
 - **Laser Physics** at School of Applied Sciences, University of Technology, Baghdad, Iraq
 - **Electronics** at School of Applied Sciences, University of Technology, Baghdad, Iraq
 - **Project Management** at Department of Management, College of Management and Economics, University of Baghdad, Baghdad, Iraq
 - **Modern Physics** at School of Applied Sciences, University of Technology, Baghdad, Iraq
 - **Atomic Physics** at School of Applied Sciences, University of Technology, Baghdad, Iraq
 - **Laser Physics** at Department of Physics, Al-Iraqia University, Baghdad, Iraq
 - **Optics** at Department of Physics, Al-Iraqia University, Baghdad, Iraq
 - **Fundamentals of Quality Assurance** at Center of Quality Assurance and Academic Accreditation, University of Technology, Baghdad, Iraq
 - **Strategies of Quality Assurance in Higher Education**, MOHESR ,Baghdad, Iraq

Research Activities:

- Preparation and characterization of organic fluorescent dyes, 1990-1994
 - Characterization and optimization of organic laser dyes, 1994-1998
 - Heterodyne detection science and technology, 1998-2002
 - Modeling and optimization of TEA CO₂ lasers, 2002-2005
 - Design and operation of coherent optical radar for civil applications, 2005-2007
 - 3Analysis of temperature-dependent refractive index and optical elasticity of Nd-YAG laser crystal, 2010-2012
 - Laser-induced shockwave stone fragmentation for lithotripsy, 2012-2015
 - Laser surface cleaning of stones and metallic objects, 2015-still
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Publications:

- Effect of solvents and concentration on the absorption and fluorescence of the dyes POPOP and Comarin-102, *Journal of Pure & Applied Sciences*, vol. 1, pp. 49-65 (2001).
 - Heterodyne detection technique by CO₂ Laser, 1st Conference on Physics and Applications, 22-23 January 2001, University of Baghdad.
 - Laser heterodyne detection, SPIE International Symposium on Optics & Photonics, 31 July-4 August, 2005, San Diego, California (USA), paper no. 5887-37.
 - Laser Heterodyne Detection (LHD) Technique, VI international Young Scientists Conference, SPO 2005, Under SPIE, Taras Shevchenko Kyiv National University (Ukraine), 27-31 October 2005.
 - Laser Radiation Attenuation as an Approach for Estimating Humidity and Pollution, *The University Researcher Journal*, No.9, 81-84, September 2005, University of Ibb, Yemen, 2005.
 - Design and Operation of a Coherent Optical Radar for Civilian Applications, European Conference on Remote Sensing, 11-16 September 2006, Stockholm, Sweden.
 - Temperature Dependencies of Refractive Index and Optical Elasticity coefficient on Lens induced in Nd-YAG crystal, *Iraqi Journal of Applied Physics*, Vol.8, No.1, pp. 35-41, 2012.
 - Modified of Discharge Electrodes in TEA CO₂ Laser System, *Thi Qar Journal of Science*.Vol.3 No.2 June 2013.
 - Application of Nd:YAG laser to induce shockwave stone fragmentation for lithotripsy, *TOFIQ Journal of Medical Sciences (USA)*, vol. 3, no. 1, pp. 17-25, 2016.
 - Laser surface cleaning of stones and some metal objects, presented at 5th International Conference on Nanotechnology and Advanced Materials and Their Applications (ICNAMA 2015) 3-4 November, 2015, University of Technology, Baghdad, Iraq.
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- Optimization of Temperature-Dependent Optoelectronic Characteristics of Polycrystalline SnO₂/Si Hetero-junction Structure. Diyala journal for pure science. Vol : 9, No : 2, P : 57-69 , May 2013, (www.iasj.net).
 - Nanosecond Nd:YAG Laser Surface Cleaning of Metals and Marbles, Iraq J. Laser, Part A, Vol: 14, PP 21-26 , 2016

Conferences and Workshops:

- Training course on ISO LH Company 20-30 March 2006, Köln, Germany.
 - Training workshops on the Lab-Volt Telecommunications, Networks and Power labs, Held at Lab-Volt Ltd., Quebec, Canada, November 20th - December 1st, 2006.
 - Course on Quality Assurance and Accreditation, 12-15 July 2009, Egypt.
 - Roundtable for Quality Assurance for Islamic countries (Representative of MOHESR, IRAQ), 13-15 November, 2009, Kuala Lumpur, Malaysia.
 - Training course on "Self-assessment and KPI" at British Council, Bahrain, March 1st-4th 2010.
 - 4th International Conference on Quality Assurance in Higher Education in Africa and Capacity Building Training Workshop (ICQAHEA-2010) Bamako, Mali, October 5-7 (Conference); 8-9 (Workshop), 2010.
 - Conference on Accreditation, Council for Higher Education Accreditation (CHEA), January 23-26 2011, Washington DC (USA), Representative of MOHESR.
 - Lecturer at Training Course on Management of Alternative and Renewable Energy Projects, Iraqi Society for Alternative and Renewable Energy Sources and Techniques, Baghdad, 2011.
 - Modern teaching and research techniques, Special training and development course to university staff members, 15 January – 15 February 2012, Lulea University, Sweden.
 - Training Workshop on Quality Improvement of Health Professions Education in Iraq through Accreditation, 27- 29 February 2012, Amman, Jordan.
 - Assessment of Quality Improvement in Iraqi Engineering Colleges, June 16-21, 2012, Erbil, Iraq.
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- Manager of periodical site visits to Iraqi colleges and institutes to check their quality and accreditation programs, 2008-2010.
 - General coordinator of MOHESR with UNESCO (focal point) for Rehabilitation of Iraqi Higher Education System Project, 2011-2014.
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Iraq Office

مكتب العراق

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منظمة الأمم المتحدة
للثقافة والعلم والتربية

قطاع التربية والتعليم

حضرة الدكتور مهدي عيدان المحترم
مدير قسم الاعتماد الدولي - دائرة ضمان الجودة
وزارة التعليم العالي والبحث العلمي- بغداد
جمهورية العراق

عمان في 27 تشرين الاول 2014

الرقم : IRQ/DIR/14/659

الموضوع: شكر وتقدير

تحية طيبة وبعد،

باسم مكتب يونسكو العراق، يسرني ان أقدم اليكم بخالص الشكر والامتنان لشخصكم الكريم لما لمسناه من تفاني وتعاون كبيرين اثناء العمل معكم على تنفيذ مشروع ضمان الجودة لمؤسسات التعليم العالي في العراق منذ العام 2011، في إطار تنفيذ مشروع تطوير منظومة التعليم العالي في العراق بين وزارة التعليم العالي والبحث العلمي الموقرة ومكتب يونسكو العراق .

اود ان اثنى على كفاءتكم في ادارة هذا المشروع الريادي الذي شمل 18 من الجامعات الحكومية في العراق ، والذي تم تنفيذه على مرحلتين على مدى السنوات الاربعة الماضية، حيث حرصتم على تطبيق مراحل إجراءات الجودة وفقاً للنموذج القياسي لدورة ضبط الجودة (Quality Assurance Cycle) وعلى تقوية اواصر الترابط ما بين الوزارة والجامعات و في تفعيل اليات المتابعة ما بين الوزارة ومدراء الجودة في تلك الجامعات والكليات والاقسام والتنسيق المتواصل والفاعل مع اعضاء اللجان المشكلة لاعداد تقارير التقييم الذاتي (SAR) وتحسين جودة الاداء (QIP) لكلياتهم ومرافقة خبراء اليونسكو في الزيارات الميدانية ومساندتهم في توجيه ملاحظاتهم وتوصياتهم الى كافة الكليات لإعداد خططهم للتحسين والتطوير ، كما بادرتم في وضع خطة لعملية مراجعة الاقران (Peer Reviews) التي خططنا لتنفيذها بالتنسيق معكم.

متمنين لكم دوام الموفقية وتحقيق مزيداً من الانجازات في قطاع التعليم العالي في العراق، ودمتم ذخراً لدولة

العراق.

سامية بن علي سعداوي
مديرة برامج قطاع التعليم العالي



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Certificate of Attendance



This is to certify that within the framework of the project
“Rehabilitation of Iraq’s Higher Education System”

Dr. Mahdi Salih Edan Al Jobory

Head of International Accreditation Department

actively participated in the 5th Workshop on

“Quality Assurance Is a Self Reflective Process”

held from 3 to 6 February 2014 in Erbil- Iraq

which is part of the Phase 2 of UNESCO Pilot Quality Assurance Programme 2013-2014

Semia Saadaoui
Senior Project Manager
UNESCO - Iraq Office



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Educational, Scientific and
Cultural Organization

Certificate of Attendance

التعليم | education
فوق | above
الجميع | all



This is to certify that within the framework of the project
“Rehabilitation of Iraq’s Higher Education System”
(Quality Assurance Programme)

Dr. Mahdi Al-Jboury

actively participated in the 6th Workshop on

“Review of Quality Improvement Plans of Pilot Colleges of Engineering-Phase II”

held from 22 to 24 November 2015 in Amman, Jordan

Axel Plathe

Director, UNESCO Office for Iraq
UNESCO Representative to Iraq



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Educational, Scientific and
Cultural Organization

Certificate of Attendance



This is to certify that within the framework of the project
“Rehabilitation of Iraq’s Higher Education System”

Dr. Mahdi Salih Edan AlJobory

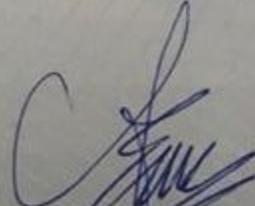
Head of International Accreditation Department \ MOHESR

actively participated in the 3rd Quality Assurance Workshop on

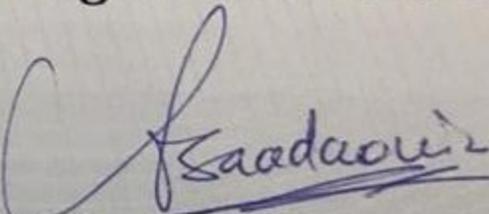
“Expanding Quality Assurance Process to All Iraqi Colleges of Engineering”

held from 25 to 26 October 2013 in Amman - Jordan

which is part of the Phase 2 of UNESCO Pilot Quality Assurance Programme 2013-2014


Louise Haxthausen
Director

UNESCO - Iraq Office



Semia Saadaoui
Project Manager
UNESCO - Iraq Office



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Educational, Scientific and
Cultural Organization

Certificate of Attendance



This is to certify that within the framework of the project
“Rehabilitation of Iraq’s Higher Education System”

Dr. Mahdi Salih Edan AlJobory

Head of International Accreditation Department – MOHESR

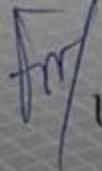
actively participated in the 4th Workshop on

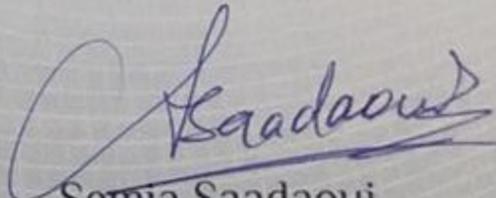
“Review of Quality Improvement Plans of Pilot colleges of Engineering”

held from 27 to 29 October 2013 in Amman - Jordan

which is part of the Phase 1 of UNESCO Pilot Quality Assurance Programme 2011-2013


Louise Haxthausen
Director


UNESCO - Iraq Office


Semia Saadaoui
Project Manager

UNESCO - Iraq Office



United Nations
Educational, Scientific and
Cultural Organization



Certificate of Attendance

This is to certify that within the framework of the project
“Rehabilitation of Iraqi Higher Education System”

Dr. Mahdi Salih Edan

Head of QA department/Ministry MOHESR- Baghdad

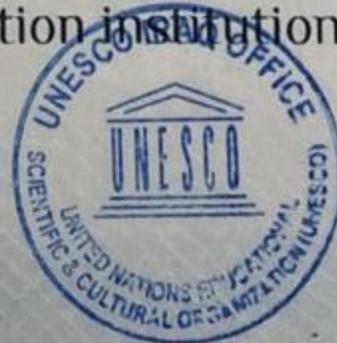
actively participated in the review workshop on

Internal Assessment for Quality Improvement of Engineering Programs

from 16 to 21 June 2012 in Erbil, Iraq

which is part of the pilot program of introducing Quality Assurance
in Iraqi higher education institutions initiated by UNESCO

F/ Mohamed Djelid
Director
UNESCO - Iraq Office



Semia Saadaoui
Project Manager
UNESCO - Iraq Office



United Nations
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Certificate of Attendance



This is to certify that within the framework of the project
“Rehabilitation of Iraq’s Higher Education System”

Dr. Mahdi Salih Edan Al Jobory

Head of International Accreditation Department

actively participated in the 5th Workshop on

“Quality Assurance Is a Self Reflective Process”

held from 3 to 6 February 2014 in Erbil- Iraq

which is part of the Phase 2 of UNESCO Pilot Quality Assurance Programme 2013-2014

Semia Saadaoui
Senior Project Manager
UNESCO - Iraq Office

CERTIFICATE

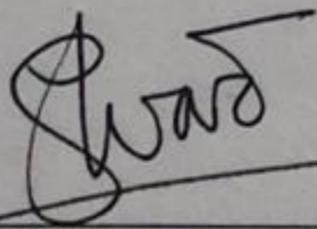
This is to certify that

Dr Mahdi Salih Edan

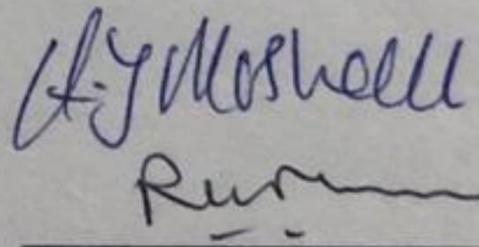
Has completed the following workshop;

***Self-assessment - A key driver in quality assurance and
improvement for universities***

***Regional Workshop; held from
1-3 March 2010, Bahrain***



Sally Ward
Regional Manager HE
British Council



Facilitator