



Scientific Curriculum



Full Name	Dr. Ali Mahdi Hammadi
College / Department	Electrical Engineering Technical College
Official Email	dralioptic@gmail.com

Certificate	Ph.D
General Specialty	Electrical Engineering
Accurate Specialty	Fiber Optics communications
The universities from which you graduated and year of graduation	<p>Ms/ from University of Technology –Baghdad AL-Rasheed College of Engineering & Science / 1993.</p> <p>M.Sc / Electrical Engineering- Communication from AL-Rasheed College of Engineering & Science /1998.</p> <p>Ph.D / Electrical and Electronics Engineering / Laser from University of Technology/ (AL-Rasheed College of Engineering & Science) on 17/2/2007</p>

Patent and there issuers	
International conferences (titles of the conference, organizer and research titles)	<p>The first international conference on laser and advanced materials applications was organized by the Department of Laser and Optical Electronics Engineering in collaboration with the Materials Engineering Department at the University of Technology</p> <p>Study the Performance of Apodized Fiber Bragg Gratings for three different apodization functions in optical communication system with single fiber</p>



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	channel.
Titles of published researches, publisher and publishing link	<p>1-Performance of DS-CDMA Using FDE in Frequency Selective Rayleigh Fading Channels, Journal Published By: Foundation of Technical Education. Engineering Researches \ Vol.26 . No.5. 2013 (مجلة هيئة التعليم التقني)</p> <p>2- Study Performance of the Fiber Bragg Grating as a Dispersion Compensator an Optical Transmission System Using Optisystem Software., Journal Published By: Journal of College Science City (مجلة كلية مدينة العلم الجامعة).</p> <p>3- Quality Factor Compensation of Single Mode Optical Fiber by using Uniform Fiber Bragg Grating., Journal Published By: Journal of Babylon University/Engineering Sciences/ No.(2)/ Vol.(22): 2014. (منشور في مجلة)</p> <p>4-Efficient FPGA Design Flow Based QAM Modulator Using System Generator and MATLAB., Journal Published By: Al-Mansour Journal/ Issue(22) 2014 (منشور في مجلة كلية المنصور الجامعة)</p> <p>5- Comparative Investigation of Graded Index Optical Fiber Characteristics by Using. Different Materials., Journal Published By: International Journal of Soft Computing and Engineering (IJSCE). ISSN: 2231-2307, Volume-4, Issue-1, (نشر في مجلة هندية معامل تاثير 1)</p> <p>6- Transmission Performance Analysis of Three Different Channels in Optical Communication Systems ,Journal Published By: International Journal of Scientific & Engineering Research, Volume 5, Issue 2, February-2014 1615 ISSN 2229-5518). (منشور في مجلة امريكية معامل تاثير 4و)</p>



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	<p>7. Study the performance of apodized fiber bragg gratings for three different apodization functions with the single fiber channel., "1 St International Conference on Laser Applications And Advanced Materials" University of technology 16-18 December 2014. مؤتمر دولي الجامعة التكنولوجية</p> <p>8. Study of Fiber Optic Medical Drugs Sensor wulfenia منشور في مجلة عالمية, 2015</p> <p>9. Comparative Investigation of use three different filters in Receiver of inter satellite optical wireless communication system (منشور في كلية المامون الجامعة)</p> <p>10- Simulation and Analysis of a transmission system to compensate dispersion in an optical fiber by use chirp gratings (منشور في مجلة عالمية) kasmera</p> <p>11- New Optical Fiber Biosensor For Serum and Glucose, Blood (منشور)</p> <p>12- Performance Improvement of Hybrid SCM SAC-OCDMA Networks using the Multi Diagonal Code. منشور في مجلة كلية المامون (الجامعة)</p> <p>13. Performance Analysis of Apodized Fiber Bragg Gratings Formats in Optical Communication System. (منشور في مجلة هندية معامل تاثير)</p>
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Number of teaching/training courses and titles of each one	<p>1 . SELF-Management of time organization.</p> <p>2. Qualifying Course in Teaching.</p>
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	<p>3. Qualifying Course in computer.</p> <p>4. Certification of Participation for mobile communication from Higher Technology institute in Egypt.</p> <p>5. Certification in International conferences</p> <p>6 courses in some publishing concepts in scientific journals</p> <p>7. Course of recording lectures electronically</p> <p>8. Wireless sensor networks and their applications</p> <p>9. Medical Signal Processing Course</p> <p>10. National security course and raising the sense of security</p> <p>11. Iraqi Virtual Science Library</p>
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<p>The materials you teach/taught in primary and postgraduate studies (year, place)</p>	<p>Principles of Electrical Engineering - 2018 Control Department - Electrical Engineering Technology</p> <p>Fiber Optic Communications - 1998 - Al-Rasheed College - University of Technology</p> <p>Electronic Analog 2007 - Institute of Technology Baghdad</p> <p>Electronic Equipment - 2014 - Computer Department - Electrical Engineering Technology</p> <p>Digital Signal Processing - 2018 - Computer Department - Electrical Engineering Technology</p> <p>Electrical fields: 2010 - Department of power -</p>
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	<p>electrical engineering technology</p> <p>Electrical Materials - 2010 - Power Department - Electrical Engineering Technology</p> <p>Communications - 2015 - Computer Department - Electrical engineering technology</p> <p>Digital Image Processing 2013 Graduate Studies - Electrical Engineering Technology</p> <p>Communication Basics: - Computer Department - Electrical Engineering Technology</p>
<p>Projects supervised for postgraduate studies (name of project, name of student, year, name of program)</p>	<p>1. Study of image compression techniques - Student: Huda Rahim Nour - 2013 - Digital image compression program with three techniques</p>
<p>Titles and discussions of postgraduate studies (name of student, name of program, place, year)</p>	<p>Electrical transformer tests before being installed in electrical network --- Student = Nassif Jasim Jafar - Faculty of Electrical Engineering Technology - 2011</p> <p>Performance of radio waves over 1 fiber networks using standard Wi-Fi and Mxamam Wi-Fi based on opnet-student-Omar Saad Mohammed Saleh - Faculty of Electrical Engineering Technology – 2013</p> <p>Study and implementation of 3rd Harmonic Generation by using Nonlinear Crystal- by student-Ekhlass Mousa Mohammed/B.S.c/ Optoelectronic University of Technology</p>



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