

## The curriculum Vitae

### Miqdam Tariq Chaichan

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Date of Birth: - 15/11/1959 in Baghdad / Iraq

Marital status: Married

Place of work: Automotive Engineering Section- Mechanical Engineering Dept.,  
UOT, Baghdad, Iraq

Languages spoken: Arabic, English

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### Academic Record

B.Sc.: 1982-Baghdad University- Engineering Collage- Mechanical Eng.  
Dept.

M.Sc.: 1989- UOT – Machines and Equipment Engineering Department- Power  
Generation

Ph.D.: -

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### Scientific degrees

**Assistant lecturer: 6/12/2005**

**Senior lecturer : 9/3/2010**

**Assistant Professor: 15/5/2013**

**Professor:**

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### Practical Experiences

- 1- 1982-1983 Heavy Equipment maintenance, Iraqi Army.
- 2- 1983-1986 Locomotive Maintenance Engineer, Iraqi Enterprise for railways.
- 3- 1986-1987 Heavy Equipment maintenance, Iraqi Army.
- 4- 1990-1997 Manager of engineering bureau specialized in mechanical engineering contracts. Baghdad, Iraq.
- 5- 1997-1999 Lecturer, Higher Institute For mechanical and Electrical Works.
- 6- 2000-2001 Lecturer, Technical and Engineering Science Collage, Sabha University, Sabha, Libya.
- 7- 2001-2002 Lecturer, Engineering Collage, Al-Jufra University, Hoon, Libya.
- 8- 2003-2007 Assistant Lecturer, Machines and Equipment Engineering Department, University of Technology, Baghdad, Iraq.

- 9- 2007-2009 Associate Lecturer, Faculty of Engineering, Sohar University, Sohar, Oman.
- 10- 2009-2010, Assistant Lecturer, Machines and Equipment Engineering Department, University of Technology, Baghdad, Iraq.
- 11- 2010-2013 Lecturer, Machines and Equipment Engineering Department, University of Technology, Baghdad, Iraq.
- 12- 2013-2016 Assistant Professor, Machines and Equipment Engineering Department, University of Technology, Baghdad, Iraq.
- 13- 2016 and on Assistant Professor, Energy and Renewable Energy Technology Center, University of Technology, Baghdad, Iraq.

### Positions

1. 1983-1986 Locomotive maintenance engineer-West section, Iraqi Republic Railways Enterprise, Iraq.
2. 1992-1997 General manager, Engineering Prevue, Baghdad, Iraq.
3. 1997-1999 President of mechanical engineering dept., High Institute of Mechanical & Electrical Eng., Zewara, Lipya.
4. 2003-2005 Technical and commercial manager, Giad Company, Iraqi branch, Baghdad, Iraq.
5. 2006-2007 Coordinator of Automotive Eng. Dept., Machines and Equipment Dept, UOT, Baghdad, Iraq.
6. 2009-2010 President of summer training committee, Machines and Equipments Eng. Dept., UOT, Iraq.
7. 2010-2012 Coordinator of Automotive Eng. Dept., Machines and Equipment Dept., UOT, Baghdad, Iraq.
8. 2011-2012 Member of summer training committee, Machines and Equipment Eng. Dept., UOT, Iraq.
9. 2012 till now Member of Examination Control Committee. Machines and Equipment Eng. Dept., UOT, Iraq.
10. 2012 till now President of prices moderation committee, Machines and Equipment Eng. Dept., UOT, Iraq.
11. 2012 till now Member of Sustainable development strategy committee, UOT, Iraq.
12. 2012 till 2014 Member of Examination Committee, Machines and Equipment Eng. Dept., UOT, Iraq.
13. 2013 till 2014 President of prices moderation committee, Machines and Equipment Eng. Dept., UOT, Iraq.
14. 2013 till 2015 Member of Examination Committee, Machines and Equipment Eng. Dept., UOT, Iraq.
15. 2015- 2016 Member of the Quality Assurance Committee.
16. 2015- 2016 President of Tenders Analysis Committee.
17. 2016-2017 President of Planning Department in Energy and Renewable Energies Technology Center.
18. 2016 - 2017 President of prices moderation committee, Energy and Renewable Energies Technology Center.
19. 2016- 2017 President of Tenders Analysis Committee, Energy and Renewable Energies Technology Center.

## **ACKNOWLEDGMENT**

- 1- From Mechanical Department, University of Technology, Iraq, 2006.
- 2- From Mechanical Department, University of Technology, Iraq, 2009.
- 3- From President of University of Technology, 2009.
- 4- From Mechanical Eng. Department, University of Technology, Iraq, 2010.
- 5- From President of University of Technology, Iraq, 2010.
- 6- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2011.
- 7- From President of University of Technology, Iraq, 2011.
- 8- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2011.
- 9- From Minister of Higher Education, Iraq, 2011.
- 10- From Vice-President Republic of Iraq, 2011.
- 11- From President of University of Technology, Iraq, 2011.
- 12- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2011.
- 13- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2013
- 14- From Minister of Higher Education, Iraq, 2011.
- 15- From Vice-President Republic of Iraq, 2011.
- 16- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2011.
- 17- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2013.
- 18- From Manager of Nanotechnology and Advanced Material Center, UOT, Iraq.
- 19- From Minister of Higher Education, Iraq, 2013.
- 20- From President of University of Technology, Iraq, 2013.
- 21- From Manager of Nanotechnology and Advanced Material Center, 2013.
- 22- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2014.
- 23- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2014.
- 24- From Dean of Collage of Applied Medical Sciences, University of Kerbala, Iraq, 2014
- 25- From Dean of Collage of Education-Ibn Rushid, Baghdad University, 2014.
- 26- From President of University of Technology, Iraq, 2014.
- 27- From President of University of Technology, Iraq, 2015.
- 28- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2015.
- 29- From President of University of Technology, Iraq, 2015.
- 30- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2015.
- 33- From President of University of Technology, Iraq, 2016.
- 31- From President of University of Technology, Iraq, 2016.
- 32- From Dean of Mechanical Eng. Department, University of Technology, Iraq, 2016.
- 34- From Undersecretary of the Ministry of Higher Education and Scientific Research, 2016.

## **Researches and Books**

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### **1. Journal Articles:-**

- 1- Chaichan, M. T. & Al Sheikh, S. A., Study of SIE performance fueled with methane, Al-Jufra University Journal, Vol.1, No.1, pp: 15-27, 2001.
- 2- Al Sheikh, S. A. & Chaichan, M. T., The effect of number of nozzle sluices on released noise from free nozzles, Al-Jufra University Journal, Vol.1, No.1, pp: 55-66, 2001.

- 3- Salim, A. A. & Chaichan, M. T., Study of NO<sub>x</sub> and CO emissions for SIE fueled with LPG, Sabha University Journal, Vol.1, No.1, pp: 106- 125, 2002.
- 4- Salim, A. A. & Chaichan, M. T., Study of NO<sub>x</sub> and CO emissions for SIE fueled with hydrogen, Sabha University Journal, Vol.1, No.1, pp: 91-105, 2002.
- 5- Salim, A. A. & Chaichan, M. T., Study of SIE performance fueled with LPG, Sabha University Journal, Vol.4, No.4, pp: 67-82, 2003.
- 6- Salim, A. A. & Chaichan, M. T., Study of SIE performance fueled with hydrogen, Sabha University Journal, Vol.6, No.3, pp:32-57, 2004.
- 7- Chaichan, M. T., Study of performance of SIE fueled with Supplementary hydrogen to gasoline, Baghdad Engineering Collage Journal, Vol.12, No.4, pp: 983-996, 2006.
- 8- Chaichan, M. T., Study of NO<sub>x</sub> and CO emissions for SIE fueled with Supplementary methane to LPG, Babel Engineering Collage Journal, Vol.6, No.2, 2006.
- 9- Chaichan, M. T., Study of NO<sub>x</sub> and CO emissions for SIE fueled with different kinds of hydrocarbon fuels, Association of Arab Universities Journal of Engineering Science, Vol.13, No. 2, pp: 85-105, 2006.
- 10- Chaichan, M. T., Study of performance of SIE fueled with Supplementary methane to LPG, Babel Engineering Collage Journal, Vol.7, No.4, pp: 25-44, 2007.
- 11- Chaichan, M. T., Study of NO<sub>x</sub> and CO emissions for SIE fueled with Supplementary hydrogen to gasoline, Baghdad Engineering Collage Journal, Vol.14, No. 6, 2007.
- 12- Chaichan, M. T., Study of performance of SIE fueled with different kinds of hydrocarbon fuels, Arabic universities Union Journal, Vol.14, No.1, 2007.
- 13- Chaichan, M. T., Study of performance of SIE fueled with Supplementary hydrogen to LPG, Association of Arab Universities Journal of Engineering Science, Vol.16, No.1, 2009.
- 14- Chaichan, M. T., Study of NO<sub>x</sub> and CO emissions for SIE fueled with Supplementary hydrogen to LPG, Association of Arab Universities Journal of Engineering Science, Vol. 16, No.2, 2009.
- 15- Abaas Kh I & Chaichan M T, Experimental study of using solar energy storage wall for heating Iraqi houses purposes, Wassit journal for science & medicine, vol. 2, No. 2, pp: 212-221, 2009.
- 16- Chaichan M T & Salih A M, Study of compression ignition engine performance when fueled with mixtures of diesel fuel and alcohols, Association of Arab Universities Journal of Engineering Science, Vol. 17, No.1, 2010.
- 17- Chaichan M T and Abaas Q A, Study of NO<sub>x</sub> emissions of SI engine fueled with different kinds of hydrocarbon fuels and hydrogen, Al Khwarizmi Eng. Journal, vol. 6, No. 2, pp: 11-20, 2010.
- 18- Chaichan M T, Emissions and Performance Characteristics of Ethanol-Diesel Blends in CI Engines, Engineering and Technology J, vol. 28, No. 21, pp: 6365-6383, 2010.
- 19- Chaichan M T, Practical measurements of laminar burning velocities for hydrogen-air mixtures using thermocouples, Association of Arab Universities Journal of Engineering Science, vol. 17, No. 2, 2010.
- 20- Chaichan M T & Kazem H A, Thermal storage comparison for variable basement kinds of a solar chimney prototype in Baghdad - Iraq weathers, International journal of Applied Science (IJAS), vol.2, No. 2, pp: 12-20, 2011.
- 21- Chaichan M T, Practical study of basement kind effect on solar chimney air temperature in Baghdad-Iraq weather. Al Khwarizmi Eng. Journal, vol. 7, No. 1, pp: 30-38, 2011.

- 22- Chaichan M T & Al Zubaidi D S, Practical Study of Performance and Emissions of Diesel Engine Using Biodiesel Fuels, Association of Arab Universities Journal of Engineering Science, vol. 18, No. 1, 2011.
- 23- Chaichan M T, Exhaust Analysis and Performance of a Single Cylinder Diesel Engine Run on Dual Fuels Mode, Baghdad Engineering Collage Journal, vol. 17, No. 4, pp: 873-885, 2011
- 24- Ahmed S T & Chaichan M T, A study of free convection in a solar chimney sample, Engineering and Technology J, vol. 29, No. 14, pp: 2986-2997, 2011.
- 25- Chaichan M T, Exhaust Analysis and Performance of a Single Cylinder Diesel Engine Run on Dual Fuels Mode, Baghdad Engineering Collage Journal, Vol. 17, No. 4, pp: 873-885, 2011.
- 26- Kazem H A, Chaichan M T, Al-Shezawi I M, Al-Saidi H S, Al-Rubkhi H S, Al-Sinani J K and Al-Waeli A H A, Effect of Humidity on the PV Performance in Oman, Asian Transactions on Engineering , vol.2 Issue 4, pp: 29-32, 2012.
- 27- Chaichan M T & Al Zubaidi D S, Practical Study of Performance and Emissions of Diesel Engine Using Biodiesel Fuels, Association of Arab Universities Journal of Engineering Science, vol. 18, No. 1, 2012.
- 28- Chaichan M T & Abaas Kh I, Practical investigation for improving concentrating solar power stations efficiency in Iraqi weathers, Anbar J for Engineering Science, vol.5, No. 1, pp: 76-87, 2012.
- 29- Ahmed S T & Chaichan M T, Effect of fuel cetane number on multi-cylinders direct injection diesel engine performance and emissions, Al-Khwarizmi Eng. Journal, vol. 8, No.1, pp: 65-75, 2012.
- 30- Chaichan M T, Characterization of lean misfire limits of alternative gaseous fuels used for spark ignition engines, Tikrit Journal of Engineering Sciences, vol.19, No.1, pp: 50-61, 2012.
- 31- Chaichan M T & Kazem H A, Status and future prospects of renewable energy in Iraq, Renewable and Sustainable Energy Reviews, vol. 16, No. 1, pp: 6007–6012, 2012.
- 32- Kazem H K, Aljibori H S, Hasoon F N and Chaichan M T, Design and testing of solar water heaters with its calculation of energy, Int. J. of Mechanical Computational and Manufacturing Research, vol. 1. No.2, pp: 62-66, 2012.
- 33- Kazem H A, Chaichan M T, Al-Shezawi I M, Al-Saidi H S, Al-Rubkhi H S, Al-Sinani J K and Al-Waeli A H A, Effect of Humidity on the PV Performance in Oman, Asian Transactions on Engineering , vol.2, Issue 4, pp: 29-32, 2012.
- 34- Chaichan M T, Abaas K I & Kazem H A, The effect of variable designs of the central receiver to improve the solar tower efficiency, International J of Engineering and Science, vol. 1, No. 7, pp: 56-61, 2012.
- 35- Chaichan M T & Abaas Kh I, Productivity amelioration of solar water distillator linked with salt gradient pond, Tikrit Journal of Engineering Sciences, vol. 19, No. 4, pp: 24-34, 2012.
- 36- Chaichan M T, Practical investigation of the performance and emission characteristics of DI compression ignition engine using water diesel emulsion as fuel, Al-Rafidain Engineering Journal, vol. 21, N0. 4, pp: 29-41, 2013.
- 37- Chaichan M T & Ahmed S T, Evaluation of performance and emissions characteristics for compression ignition engine operated with disposal yellow grease, International Journal of Engineering and Science, vol.2, No. 2, pp: 111-122, 2013.

- 38- Chaichan M T, Abaas K I, Kazem H A, Al Jibori H S & Abdul Hussain U, Novel design of solar receiver in concentrated power system, *International J. of Multidispl. Research & Advcs. in Eng. (IJMRAE)*, vol. 5, No. 1, pp: 211-226, 2013.
- 39- Chaichan M T & Saleh A M, Practical investigation of the effect of EGR on DI multi cylinders diesel engine emissions, *Anbar Journal for Engineering Science (AJES)*, vol. 6, No. 3, pp: 401-410, 2013.
- 40- Darwish Z A, Kazem H A, Sopian K, Alghoul M A and Chaichan M T, Impact of Some Environmental Variables with Dust on Solar Photovoltaic (PV) Performance: Review and Research Status, *International J of Energy and Environment*, vol. 7, No. 4, 152-159, 2013.
- 41- Chaichan M T, Measurements of laminar burning velocities and Markstein length for LPG–hydrogen–air mixtures, *International Journal of Engineering Research and Development*, vol. 9, No. 3, 2013.
- 42- Chaichan M T, The measurement of laminar burning velocities and Markstein numbers for hydrogen enriched natural gas, *International Journal of Mechanical Engineering & Technology (IJMET)*, vol. 4, No. 6, pp: 110-121, November- December, 2013.
- 43- Chaichan M T and Saleh A M, Practical investigation of performance of single cylinder compression ignition engine fueled with duel fuel, *The Iraqi Journal for Mechanical and Material Engineering*, vol. 13, No. 2, pp: 198-211, 2013
- 44- Chaichan M T, Practical measurements of laminar burning velocities and Markstein Numbers for Iraqi diesel-oxygenates blends, *The Iraqi Journal for Mechanical and Material Engineering*, vol. 13, No. 2, pp: 289-306, 2013.
- 45- Chaichan M T, Abaas K I & Naser A H, Study of the effect of exhaust gas recirculation on performance and emitted noise of an engine fueled with diesel fuel, *Association of Arab Universities Journal of Engineering Science*, vol. 20, No. 1, pp: 43-59, 2013.
- 46- Chaichan M T, Abaas K I & Salih H M, Practical investigation for water solar thermal storage system enhancement using sensible and latent heats in Baghdad-Iraq weathers, *Journal of Al-Rafidain University Collage for Science*, Issue 33, 2014.
- 47- Al-Waely A A, Salman S D, Abdol-Reza W K, Chaichan M T, Kazem H A and Al-Jibori H S S, Evaluation of the spatial distribution of shared electrical generators and their environmental effects at Al-Sader City-Baghdad-Iraq, *International Journal of Engineering & Technology IJET-IJENS*, vol:14, No:2, pp: 16-23, 2014.
- 48- Chaichan M T, Evaluation of the effect of cooled EGR on knock of SI engine fueled with alternative gaseous fuels, *Sulaimani Journal for Engineering Science*, vol. 1, No. 1, 2014.
- 49- Kazem A A, Chaichan M T & Kazem H A, Effect of dust on photovoltaic utilization in Iraq: review article, *Renewable and Sustainable Energy Reviews*, vol. 37, September, pp: 734-749, 2014.
- 50- Chaichan M T, Experimental evaluation of the effect of some engine variables on emitted PM and Pb for single cylinder SIE, *Association of Arab Universities Journal of Engineering Science*, vol. 2, No. 20, pp: 1-13, 2013.
- 51- Chaichan M T, Combustion and Emissions Characteristics for DI Diesel Engine Run by Partially-Premixed (PPCI) Low Temperature Combustion (LTC) Mode, *International Journal of Mechanical Engineering (IJME)*, vol. 2, No. 10, 2014.
- 52- Chaichan M T, Al-Zubaidi D S M, A practical study of using hydrogen in dual – fuel compression ignition engine, *International Journal of Mechanical Engineering (IJME)*, vol.2, No. 11, 2014.

- 53- Salih A M & Chaichan M T, The effect of initial pressure and temperature upon the laminar burning velocity and flame stability for propane-air mixtures, *Global Advanced Research Journal of Engineering, Technology and Innovation*, vol. 3, No. 7, pp: 154-201, 2014.
- 54- Chaichan M T, Combustion of dual fuel type natural gas/liquid diesel fuel in compression ignition engine, *Journal of Mechanical and Civil Engineering (IOSR JMCE)*, vol. 11, No. 6, pp: 48-58, 2014.
- 55- Faris S S, Chaichan M T, Sachit M F and Jaleel J M, Simulation and numerical investigation of effect air gap thickness on Trombe wall system, *International Journal of Application or Innovation in Engineering & Management (IJAIEEM)*, vol. 3, No. 11, pp: 159-168, 2014.
- 56- Chaichan M T, Combustion of dual fuel type natural gas/liquid diesel fuel in compression ignition engine, *Journal of Mechanical and Civil Engineering (IOSR JMCE)*, vol. 11, No. 6, pp: 48-58, 2014.
- 57- Chaichan M T, Salam A Q & Abdul-Aziz S A, Impact of EGR on engine performance and emissions for CIE fueled with diesel-ethanol blends, *Arabic universities Union Journal*, vol. 27, No. 2, 2014.
- 58- Chaichan M T, Exhaust gas recirculation (EGR) and injection timing effect on emitted emissions at idle period, *Al-Khwarizmi Engineering Journal*, *Al-Khwarizmi Engineering Journal*, vol.10, No. 4, pp: 33-44, 2014.
- 59- Chaichan M T, Al-Zubaidi D S M, Operational parameters influence on resulted noise of multi-cylinders engine runs on dual fuels mode, *Journal of Al-Rafidain University Collage for Science*, vol. 35, pp: 186-204, 2014.
- 60- Chaichan M T & Faris S S, Practical investigation of the environmental hazards of idle time and speed of compression ignition engine fueled with Iraqi diesel fuel, *International J for Mechanical and Civil Eng.*, vol. 12, No. 1, pp: 29-34, 2015.
- 61- Chaichan M T, Abaas K I, EGR and Injection Timing Variation Effects of an Engine Run in HCCI Mode Performance and Emitted Emissions, *International Journal of Engineering Trends and Technology (IJETT)*, vol. 19, No. 3, pp: 120-130, 2015.
- 62- Chaichan M T & Kazem H A, Using aluminum powder with PCM (paraffin wax) to enhance single slope solar water distillator productivity in Baghdad-Iraq winter weathers, *International Journal of Renewable Energy Research*, vol. 1, No. 5, 2015.
- 63- Chaichan M T & Kazem H A, Using aluminum powder with PCM (paraffin wax) to enhance single slope solar water distillator productivity in Baghdad-Iraq winter weathers, *International Journal of Renewable Energy Research*, vol. 1, No. 5, 2015.
- 64- Chaichan M T & Kazem H A, Water solar distiller productivity enhancement using concentrating solar water heater and phase change material (PCM), *Case Studies in Thermal Engineering*, Elsevier, vol. 5, pp: 151-159, 2015.
- 65- Chaichan M T, Abaas K H, Performance amelioration of a Trombe wall by using phase change material (PCM), *International Advanced Research Journal in Science, Engineering and Technology*, vol. 2, No. 4, pp: 1-6, 2015.
- 66- Chaichan M T, Performance and emission study of diesel engine using sunflowers oil-based biodiesel fuels, *International Journal of Scientific and Engineering Research*, vol. 6, No. 4, pp: 260-269, 2015.
- 67- Chaichan M T, Kazem H A, Kazem A A, Abaas Kh I, Al-Asadi K A H, The effect of environmental conditions on concentrated solar system in desertic weathers,

- International Journal of Scientific and Engineering Research, vol. 6, No. 5, pp: 850-856, 2015.
- 68- Chaichan M T, The impact of equivalence ratio on performance and emissions of a hydrogen-diesel dual fuel engine with cooled exhaust gas recirculation, International Journal of Scientific & Engineering Research, Volume 6, Issue 6, pp: 938-941, June-2015.
- 69- Chaichan M T, The Effects of Hydrogen Addition to Diesel Fuel on the Emitted Particulate Matters, International Journal of Scientific & Engineering Research, Volume 6, Issue 6, pp: 1081-1087, June-2015.
- 70- Chaichan M T, Abaas K I, Kazem H A, design and assessment of solar concentrator distilling system using phase change materials (PCM) suitable for desertic weathers, Desalination and water treatment, pp: 1-11, 2015.  
DOI: 10.1080/19443994.2015.1069221
- 71- Kazem H A, Chaichan M T, Saif S A, Dawood A A, Salim S A, Rashid A A, Alwaeli A A, Experimental investigation of dust type effect on photovoltaic systems in north region, Oman, International Journal of Scientific & Engineering Research, vol. 6, No. 7, pp: 293-298, 2015.
- 72- Chaichan M T and Al-Asadi K A H, Environmental Impact Assessment of traffic in Sohar, Oman, International Journal of Scientific & Engineering Research, vol. 6, No. 7, pp: 493-496, 2015.
- 73- Chaichan M T, Kamel S H & Al-Ajeely, A N M, Thermal conductivity enhancement by using nano-material in phase change material for latent heat thermal energy storage Systems, under evaluation, SAUSSUREA, vol. 5, No. 6, pp: 48-55, 2015.
- 74- Sabaa H Khudhur, Adel M Saleh, Miqdam T Chaichan, The Effect of Variable Valve Timing on SIE Performance and Emissions, International Journal of Scientific & Engineering Research, vol. 6, No. 8, pp: 173-179, 2015.
- 75- Alwaely A A, Al-qaralocy H N, Al-Asadi K A, Chaichan M T, Kazem H A, The environmental aftermath resulted from chemical bombardment of Halabja Territory for the period 1988-2014. International Journal of Scientific & Engineering Research, vol. 6, NO. 9, pp: 40-44, 2015.
- 76- Chaichan M T, The impact of engine operating variables on emitted PM and Pb for an SIE fueled with variable ethanol-Iraqi gasoline blends, IOSR Journal of Mechanical and Civil Engineering (IOSRJMCE), vol. 12, NO. 6-1, pp: 72-79, 2015.  
ANED-DDL: 13.1864/iosr-Jmce-J012617279 (DOI: 10.9790/1684-12617279)
- 77- Chaichan M T, Evaluation of emitted particulate matters emissions in multi-cylinder diesel engine fuelled with biodiesel, American Journal of Mechanical Engineering, vol. 4, No. 1, pp: 1-6, 2016. (DOI : 10.12691/ajme-4-1-1)
- 78- Chaichan M T, Improvement of NO<sub>x</sub>-PM trade-off in CIE though blends of ethanol or methanol and EGR, International Advanced Research Journal in Science, Engineering and Technology, vol. 2, No. 12, pp: 121-128, 2015. (DOI: 10.17148/IARJSET.2015.21222)
- 79- Chaichan M T, Al-Zubaidi D S M, Control of hydraulic transients in the water piping system in Badra-pumping station No.5, Al-Nahrain University, College of Engineering Journal (NUCEJ), vol. 18, No. 2, pp: 229-239, 2015.
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- 83- Al-Maamary H M S, Kazem H A, Chaichan M T, Changing the energy profile of the GCC States: A review, *International Journal of Applied Engineering Research (IJAER)*, vol. 11, No. 3, pp: 1980-1988, 2016.
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- 87- Hussein A. Kazem, Ali H. A. Al-Waeli, Miqdam T. Chaichan, Asma S. Al-Mamari, Atma H. Al-Kabi, Design, measurement and evaluation of photovoltaic pumping system for rural areas in Oman, *Environ Dev Sustain*, 2016. DOI 10.1007/s10668-016-9773-z
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- 92- Chaichan M T, Enhancing productivity of concentrating solar distillating system accompanied with PCM at hot climate, *Wulevina*, vol. 23, No. 5, pp: 1-18, 2016.
- 93- Chaichan M T, Kazem H A, Mahdy A M J & Al-Waeely A A, Optimization of Hybrid Solar PV/ Diesel System for Powering Telecommunication Tower, *IJESSET*, vol. 8, No. 6, pp: 1-10, 2016.
- 94- Chaichan M T, Kazem H A, Abaas K I, Al- Waeli A A, Homemade Solar Desalination System for Omani families, *International Journal of Scientific & Engineering Research*, vol. 7, No. 5, pp:1499-1504, 2016.

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6. The Arabic Universities Union Journal, Baghdad University, Baghdad, Iraq, 2013.
7. Member of Advisor/Editorial Board of International Journal of Application or Innovation in Engineering & Management (IJAIEM), <http://www.ijaiem.org>
8. Energy and Buildings, Elsevier, 2015.
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10. Renewable Energy, Elsevier, 2015.
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## **Continuous Education Sessions**

Establishing continuous education sessions in continuous education center since 2006 till today in a rate of one session per month, in the following titles:

- 1- Maintenance, inspection and troubleshooting digamous for diesel engines.
- 2- Checking new automotive using computer.
- 3- The new techniques in cars.
- 4- Maintenance, inspection and instillation of electrical generators.

## **Honors and Awards**

1- Best Paper Award for the period from 2009 to 2014, Association of Arab Universities Journal of Engineering Science, Baghdad, 2014.

### **Professional Memberships**

- **Member in the Iraqi Engineering Union since 1982.**

### **Any Activities:-**

- **Member in the committee of Iraqi standard No. 4059 (Permitted limits for gaseous and particulates emitted from generator engines).**
- **Member in Sohar University Solar Energy Research Team, Oman.**
- **Member in the Iraqi Organization for Desertification and Pollution.**
- **Member of Advisor/Editorial Board of International Journal of Application or Innovation in Engineering & Management (IJAIEEM), <http://www.ijaiem.org>**
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