Curriculum Vitae

Walid Emar, Professor 1970

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PERSONAL DETAILS:

Name and Surname	Walid Emar
Nationality Status	**Palestinian with Jordanian passport, and Czech**
Contact Email Address	Walidemar23@yahoo.com

EDUCATION

Institution	Academic Degrees and Field of Specialization	Date
Secondary school	Yatta Secondary school Gymnasium	1988/89
University of West Bohemia - ZCU, Pilsen, Czech Republic (**Scholarship from Czech for Palestine**).	**B.Sc. and M.Sc.** in Power (Industrial) electronics. **Department** of Power Electronics and Control System Engineering **Faculty of Electrical Engineering.**	1990/91 – 1996/97
University of West Bohemia - ZCU, Pilsen, Czech Republic (**Scholarship from Czech**).	**Ph.D.** in Power electronics including automatic control systems. **Department** of Power Electronics and Control System Engineering **Faculty of Electrical Engineering.**	September 1998 – March 2002
University of Isra, Amman, Jordan	**Academic Associate professor rank in the field of Electrical Engineering.**	19/10/2011
University of Isra, Amman, Jordan	**Professorship rank in the field of Electrical Engineering.**	1st Semester 2021
ملاحظة: معتمد من هيئة اعتماد التعليم العالي للتدريس في مجالي انظمة التحكم والات كهربائية وكل ما ينتمي لهما مثل الكترونيات قوى ودفع كهربائي ومواد اخرى بالاضافة الى مادتي: ادارة الطاقة والنمذجة والمحاكاة لطلبة الماجستير.		

Professional Courses and Knowledge's

1. Teaching Energy management for MASTER'S DEGREE (M.Sc.) STUDENTS
2. Modeling and simulation for renewable energy students
3. Teaching Power Electronics.
4. Teaching Control Systems
5. Teaching Electric Drives
6. Electric Circuits I
7. Electric Circuits II
8. Teaching Measurements and Instrumentation
9. Teaching Electromagnetism I
10. Teaching Electromagnetism II
11. Teaching Signals and Systems
12. Teaching Electric Machine
13. Teaching Power System analysis

SUPERVISING M. SC. THESIS:

Supervised a large number of undergraduation and master postgraduation projects in the field of Electrical engineering.

1. M. Sc. thesis work titled Energy Demand Side Management System for Smart Homes and Buildings - Case study: SULTANATE OF OMAN, 2019. Student: Ghazi Suhail Al-Barami.
2. M. Sc. thesis work titled Multi-Criteria XYZ and Economic Analysis for Inventory Management of Laptops Spare Parts in Market Sector, 2019. Student: Sami Falah Alharbi.
3. M. Sc. thesis work titled Rationalization of Energy Consumption in Large Buildings by Using Technical Methods and Thermal Insulation. (Case Study: Palestinian Territories). Student: Anas Khader Ahmad Antari.
4. M. Sc. thesis work titled Legislation and Energy Policy for greening Electricity in Middle East Countries – Case study UAE, 2018. Student: Mohammad B Alkadri.
5. M. Sc. thesis work titled Inventory Management of Slow-Moving Computer Spare Parts in Jordan, May, 2016. Student: Wisam Hussain Ali AL-Dulaime.
6. M. Sc. thesis work titled Energy management and Rationalization in Government Buildings, Case Study: Iraqi Embassy in Jordan-Amman, May, 2017. Raied Abdel Ridha Hasan.
7. M. Sc. thesis work titled Root Cause Analysis Technology to Improve Maintenance Management of Equipment in Water Treatment Plants, 2020, Student: Hussein Abdulla Awiad Al-Marawi.
8. M. Sc. thesis work titled Management and Development of a Residential Solar Energy Storage System in Jordan, 2021. Student: Sameera Mohammed Abu-Attieh.
9. M. Sc. thesis work titled Renewable Energy Management in Port Activities/Projects: A Case Study of Salalah Port, Oman, 2021. Student: Amer Zabunot.
10. M. Sc. thesis work titled Solar Powered Drip Irrigation System: A solution to Water and Energy Management in Agriculture Case Study: (Jordan Valley), 2020. Student: Mohamad Waleed AlShaar.
11. M. Sc. thesis work titled COST OPTIMIZATION AND MODELING OF INTEGRATED RENEWABLE ENERGY SYSTEM IN RURAL AREAS (Case Study: Jordan), 2020. Student: Rashed Tareq Elayyan.
12. M. Sc. thesis work titled Maintenance Management Practices and Operational Performance in Electricity Industry in Jordan (case study: Jordan), 2021. Student: Wesam Alamri.
13. M. Sc. thesis work titled Rural Electrification and Irrigation System Management using Renewable Energy Resources, Case Study of Northern Ghor, Jordan Valley, 2023. Student: Abdel Rahman Khamis.

EXPERIENCE

ADMINISTRATIVE POSITIONS AND UNIVERSITY COMMITTEES

- Head of the Department of Communications and Electronics, Faculty of Engineering, Isra University, Amman, Jordan - 2020/2021: managing Communications and Electronics' engineering department. This involved creating the department study plans, the program curriculum; the Labs; setting up the staff's work assignments, monitoring and regulating the progress, assessing performance, and managing both short-term and long-term initiatives.

•رئيس قسم الاتصالات والالكترونيا ت، كلية الهندسة ، جامعة الاسراء ، عمان ، الاردن - 2020.2022 /

- Head of the Department of Communications and Electronics, Faculty of Engineering, Isra University, Amman, Jordan – for a certain time in 2011/2012.
- Director of the State-wide University Proficiency Examinations Committee, Isra University, Amman, Jordan, 2020/2021.

•رئيس لجنة الامتحانات وامتحان الكفاءة الجمامعية، جامعة الاسراء ، عمان ، الاردن ،2020 / 2019

- Nomination and Promotion Committee, Isra University, Amman, Jordan, 2019/2021.

•لجنة التعيين والترقية ، جامعة الاسرا ، عمان ، الاردن ، 2020 / 2021.

- The Study Plan Committee, Course Equivalency and Academic Advising, Isra University, Amman, Jordan, for many years.

•لجنة الخطة الدراسية و معادلة المواد والارشاد الاكاديمي ، جامعة الاسراء ، عمان ، الاردن ، لسنوات عديدة.

- Laboratory and Protocol Committee, Isra University, Amman, Jordan, for many years.

•لجنة المختبرات، جامعة الاسرا ، عمان ، الاردن ، لسنوات عديدة.

- The Academic Research Committee, Isra University, Amman, Jordan, 2020/2019.

•لجنة البحث العلمي ، جامعة الاسرا ، عمان ، الاردن ، 2020 / 2021.

• Director of University Sixth Standard Committee - Student Services, Amman University, Amman, Jordan, 2019/2021.

•رئيس لجنة المعيار السادس للجامعة - الخدمات الطلابية ، جامعة الاسراء ، عمان ، الاردن ، 2020\2021.

WORK EXPERIENCE

2021 - 2023: PROFESSOR
ISRA UNIVERSITY – AMMAN, JORDAN.
FACULTY OF ENGINEERING
COMMUNICATION AND ELECTRONICS DEPT.
AND ALSO FOR RENEWABLE ENERGY DEPT.

2011 - 2022: ASSOCIATE PROFESSOR
ISRA UNIVERSITY – AMMAN, JORDAN.
FACULTY OF ENGINEERING
COMMUNICATION AND ELECTRONICS DEPT.
AND ALSO FOR RENEWABLE ENERGY DEPT.

2005/2006 - 2011: ASSISTANT PROFESSOR
ISRA UNIVERSITY – AMMAN, JORDAN.
FACULTY OF ENGINEERING
COMMUNICATION AND ELECTRONICS DEPT.

SCOPE OF EMPLOYMENT:

A. TEACHING ENERGY MANAGEMENT AND MODELLING AND SIMULATION FOR MASTER DEGREE STUSENTS
B. TEACHING ELECTROMAGNETISM, ELECTRONIC CIRCUITS, POWER ELECTRONICS, INDUSTRIAL ELECTRONICS, ELECTRIC DRIVES, AUTOMATIC CONTROL SYSTEMS, MEASUREMENTS AND INSTRUMENTATION, ELECTRICAL CIRCUITS I, II, ELECTRICAL MACHINES, POWER SYSTEM ANALYSIS FOR BACHELOR DEGREE STUDENTS.
C. HEAD OF ELECTRICAL DEPT. (2011 /2012) FOR A CERTAIN PERIOD.
D. SUPERVISING LABORATORIES: MACHINE LAB., CONTROL LAB., ELECTRICAL INSTRUMENTATION AND MEASUREMENT LAB. , ELECTRICAL CIRCUIT LAB.
E. SUPERVISING STUDENT GRADUATING PROJECTS:
    I. FREQUENCY CONVERTER IN ASSOCIATION WTH A DC - DC SWITCHINGCONVERTER
    II. MICROCOMPUTER CONTROL OF STEPPER MOTOR
    III. BUCK REGULATORS
    IV. FIELD ORIENTED CONTROL OF INDUCTION MOTORS AND MANY OTHER.

2005 - 2008: ASSISTANT PROFESSOR
APPLIED SCIENCE UNIVERSITY – AMMAN, JORDAN.
FACULTY OF ENGINEERING
ELECTRICAL ENGINEERING DEPT.

SCOPE OF EMPLOYMENT:

(2005 – SUMMER COURSE, 2005/2006 FIRST SEMESTR + SECOND SEMESTR, 2007/2008 SUMMER COURSE: PART-TIMER)

A. TEACHING ELECTROMAGNETISM I, POWER ELECTRONICS, ELECTRICAL MACHINES.
B. SUPERVISING LABORATORY OF ELECTRICAL MACHINES.

2003 - 2005: SUPERVISOR, QUALITY CONTROL DEPARTMENT.
DAIKIN AIRCONDITIONING CENTRAL EUROPE - CZ, S.R.O. AND FUJI KOYO COMPANY.
PILSEN, CZECH REPUBLIC. (For less than 6 months)

2002- 2003: ASSISTANT PROFESSOR

BIRZEIT UNIVERSITY, BIRZEIT, RAMALLAH, PALESTINE.
FACULTY OF ENGINEERING
ELECTRICAL ENGINEERING DEPT.

SCOPE OF EMPLOYMENT:

A. TEACHING POWER ELECTRONICS, POWER SYSTEMS, SIGNALS AND SYSTEMS,ELECTRIC MACHINES.
B. SUPERVISING LABORATORIES OF ELECTRICAL MACHINES AND CONTROL.
C. PREPARATION, SUPERVISION AND PROMOTION OF :

I. UNINTERUPRUPTIBLE POWER SUPPLY.
II. GENETIC ALGORITHM USED FOR CONTROL OF INDUCTION MOTOR.

9.1998 – 28. 02. 2002: PH.D. STUDY PROGRAM
UNIVERSITY OF WEST BOHEMIA
PILSEN, CZECH REPUBLIC.
FACULTY OF ENGINEERING
DEPARTMENT OF POWER ELECTRONICS AND CONTROL SYSTEM ENGINEERING.

MAIN SCOPE:

A. TEACHING ELECTRIC DRIVES.
B. PREPARATION OF PH.D. THESIS: ANALYSIS, PREPARATION AND DESIGN OF INTERPHASE TRANSFORMER AND SMOOTHING CHOKES USED FOR SUPPLYING SWITCHING REGULATORS AND CONVERTERS USED FOR SUPPLYING D.C. TRAM-CARS PRODUCED IN SKODA - DEPARTMENT OF ELECTRIC DRIVES AND TRAFFIC ENGINEERING FOR PRODUCING ELECTRIC DRIVES (TRAMS AND LOCOMOTIVES).
C. PH.D. STUDY PROGRAM: STUDYING SPECIFIC SUBJECTS IN POWER ELECTRONICS AND CONTROL AS A PART OF PH.D. STUDY PROGRAM: METHODS OF APPLIED MATHEMATCS, SELECTED TOPICS OF CONTROL SYSTEMS, SELECTED TOPICS OF MACHINES, CONTROL OF DRIVE SYSTEMS, PROGRAMMING, SIMULATION OF SPECIFIC PHENOMENA IN POWER ELECTRONIC SYSTEMS, POWER ELECTRONICS.

REFEREED JOURNAL PUBLICATIONS

1. **WALID EMAR, Zakaria Al-Omari, Taiseer Rawashdeh**: Slip-Ring Induction Motor Torque and Current Ripple Minimization Using Bang-Bang Current Control, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 02, pp00-00, June 2023.
2. **Mohamad Waleed AlShaar, Zakaria Al-Omari, Walid Emar, Moawiah Alnsour, Ghaida Abu-Rumman:** Application of PV-Thermal Array for Pumping IrrigationWater as an Alternative to PV in Ghor Al-Safi, Jordan:A case study, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 09, Issue 04, pp1140-1150, December 2022.
https://www.tj.kyushu-u.ac.jp/evergreen/contents/EG2022-9_4_content/

3. **Zakaria Al-Omari, Walid Emar:** Modeling and simulation of a stand-alone wind turbine supplying an inductive load through a long cable, International Journal of Power Electronics

and Drive Systems (IJPEDS), Vol. 13, No. 3, September 2022, pp. 1654-1665.
https://ijpeds.iaescore.com/index.php/IJPEDS/article/view/21689

4. **Wesam Alamri, Walid Emar, Zakaria Al-Omari, Moawiah Alnsour:** MAINTENANCE MANAGEMENT PRACTICES IN ELECTRICITY INDUSTRY INARAB WORLD: CASE STUDY IN JORDAN, Journal of Engineering Research and Reports, 2022, 22(6):30-42.
http://eprints.stmarchives.com/id/eprint/359/

5. **Sameera Abu-Attieh, Walid Emar, Zakaria Al-Omari:** Management and Development of a Residential Energy Storage System: A Case Study Jordan, Journal of Applied Engineering Science, 2022, Accepted, under publication, September, Scopus.
http://www.engineeringscience.rs/images/pdf/36314.pdf

6. Walid Emar, Zakaria Anas Al-Omari, Sami Alharbi: Analysis of inventory management of slow-moving spare parts by using ABC techniques and EOQ model-a case study, Indonesian Journal of Electrical Engineering and Computer ScienceVol. 23, No. 2, August 2021, pp. 1159~1169.
https://ijeecs.iaescore.com/index.php/IJEECS/article/view/25028

7. **Walid Emar**, **Zakariya Al-Omari, Zayed Huneiti:** Induction motor current ripple minimization with PV based SEPIC-cascaded inverter, International Journal of Modelling, Identification and Control, IJMIC 2020 Vol. 35 No. 2 (SCOPUS, EmergingSources Citation Index (Clarivate Analytics).
https://www.researchgate.net/publication/348891775

8. **Walid Emar:** A **new Modified Class of SEPIC Converter Processor with PV and A/C Integrated Circuit Systems,** Journal of Circuits, Systems, and Computers, Vol 30No. 10, Aug 2021, SCOPUS, Emerging Sources Citation Index (Clarivate Analytics).
https://www.worldscientific.com/doi/10.1142/S0218126621501760

9. **Walid Emar**, **Omar A. Saraereh**: Analytical and Comparative Study of Different Types of Two-Leg Chopping up Regulator, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 10, No. 5, 2019.
https://thesai.org/Downloads/Volume10No5/Paper_15-Analytical_and_Comparative_Study.pdf

10. **Wisam AL-Dulaime, Walid M. Emar:** Analysis of Inventory Management of LaptopsSpare Parts by Using XYZ Techniques and EOQ Model; A Case Study, International Journal of Scientific & Technology Research Volume 8, Issue 10, October 2019.
http://www.ijstr.org/final-print/oct2019

11. **Walid Emar**, **Zakariya Al-Omari, Omar A. Saraereh**: Optimization of Cúk Voltage Regulator Parameters for Better Performance and Better Efficiency, (IJACSA)International Journal of Advanced Computer Science and Applications, Vol. 10, No. 11,2019-SCOPUS.
https://thesai.org/Publications/ViewPaper?Volume=10&Issue=11&Code=IJACSA&SerialNo=23

12. **Walid Emar, Ghazi Suhail Al-Barami:** Economical Motivation and Benefits of UsingLoad Shedding in Energy Management Systems, International Journal of Advanced Computer Science and Applications (IJACSA), *Vol. 10, No. 1, 2019,* **ISI Thomson,Scopus**.
http://thesai.org/Publications/ViewPaper?Volume=10&Issue=1&Code=IJACSA&SerialNo=27

13. **Walid Emar**, **Omar A. Saraereh**: Simulated topology of doubly poweredasynchronous motor with diode clamped inverter, Inderscience, International Journal ofpower electronics, 2019, Vol.10 No.1/2, pp.173 – 185**, Scopus**.
http://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijpelec

14. **Mohammad Alqaderi, Walid Emar, Omar A. Saraereh:** Concentrated Solar PowerSite

Suitability Using GIS- MCDM Technique Taken UAE as a Case Study, International Journal of Advanced Computer Science and Applications(IJACSA), April 2018, *Vol. 9, No. 4, 2018* , **ISI Thomson**. http://thesai.org/Publications/ViewPaper?Volume=9&Issue=4&Code=IJACSA&Seria lNo=40

15. **Walid Emar, Omar A. Saraereh, Karim Aljebory:** Three Phase Three Level VoltageFed Inverter for a Doubly Fed Induction Motor, Transylvanian Review, TransylvanianReview: Vol XXV, No. 22, November 2017.

    http://transylvanianreviewjournal.org/index.php/TR/article/view/1711

16. **Walid Emar:** Anaslysis, Modelling and Simulation of step up Converter using Matlab-simulink and simplorer, (very strong journal: International Journal of Modeling, Simulation, and Scientific Computing, (IJMSSC), 2016, Vol. 7, Issue 3.

    http://www.worldscientific.com/doi/abs/10.1142/S1793962316500045, very goodjournal of Elsevier group **(Scopus, ISI).**

17. **Walid Emar, Khader Mohammad, and Mahdi Washhais:** Multichannel Step Up Power Converter with Magnetically Uncoupled Filters, (strong journal: **InternationalJournal of Power and Energy Systems**), ACTAPRESS, Vol. 36, No. 1, 2016. **(Scopus).**

    https://www.actapress.com/Abstract.aspx?paperId=45442

18. **Walid Emar, Musbah J. Aqel:** Improvement of Stepping Motors Dynamic BehaviourUsing Multilevel Dual Power Electronic Processor, Journal of electronic systems, Vol.5, No. 2, June 2015.

    http://www.dline.info/jes/fulltext/v5n2/v5n2_1.pdf

19. **Issam Trrad,Walid Emar, Ziad Sobih:** Novel Hybrid Two-Phase Interphase-ReactorBoost Type Converter with Controlled Output Voltage and Sinusoidal Input Utility Voltage, IJREEE, Vol. 3, issue 2, 2015.

    http://www.iaster.com/uploadfolder/2NOVELHYBRIDTWO-PHASEINTERPHASE-REACTORBOOSTTYPECONVERTER/2NOVEL%20HYBRID%20TWO-PHASE%20INTERPHASE- REACTOR%20BOOST%20TYPE%20CONVERTER.pdf

20. **Walid Emar, Zayed Huneiti:** Analysis, Synthesis and Simulation of Compact Two- channel Boost Converter for Portable Equipment Operating with a Battery or Solar Cell,Elsevier, Journal of Procedia Computer Science, 2015. **(Scopus).**

21. **Walid Emar:** Analysis, Modeling and Control Design of a Synchronous Generator with a Wind Turbine and a Multilevel Voltage Source Inverter, IJREEE, Vol. 3, issue 3, 2015.

    http://www.iaster.com/uploadfolder/1Analysis,ModelingandControlDesignofaSynchronousGeneratorwithaWindTurbineandaMultilevelVoltageSourceInverter/1Analysis,%20Modeling%20and%20Control%20Design%20of%20a%20Synchronous%20Generator%20with%20a%20Wind%20Turbine%20and%20a%20Multilevel%20Voltage%20Source%20Inverter.pdf

22. **Rami A. Maher, Walid Emar and Amjad Jalil:** Adaptive hysteresis-band controller, International journal of power and energy conversion, Inderscience, Vol. 4, No. 4, 2013. **(Scopus).**

    http://www.inderscience.com/info/inarticle.php?artid=57033

23. **Walid Emar, Musbah J. Aqel:** A Computer Based Sliding Mode Controller Topologyfor Nonlinear Voltage Regulating Chopper**,** International Journal of Computers and Applications, Vol. 36, No. 3, 2014. **(Scopus).**

    http://www.actapress.com/Abstract.aspx?paperId=44606

24. **Walid Emar, Maher Dababneh, Issam TTrad:** Chopper Control of a Bipolar StepperMotor**,** International Journal of Engineering (IJE), vol. 7, Issue 2, 2013**. (DOAJ)**

http://www.cscjournals.org/csc/titlesearchresult.php?SearchTextBox=Chopper%20Control%20of%20a%20Bipolar%20Stepper%20Motor&type=

25. **Walid Emar and Rami A. Maher:** Performance analysis and Dynamic characteristics of Hysteresis Based Indirect Field Oriented Control of Induction Motor Drives**, Actapress,** International Journal of Modelling and Simulation, Vol. 32, No.3, 2012. **(Scopus).**

    http://www.actapress.com/PaperInfo.aspx?paperId=43048

26. **Walid Emar, Rami A. Maher, and Amjad Jalil:** Constant frequency digital Hysteresis-band Current Controller for a Three Phase voltage inverter, **Actapress, Control and Intelligent Systems, Vol. 39, No. 2, 2011. (Scopus).**

    http://www.actapress.com/PaperInfo.aspx?PaperID=42497&reason=500

27. **Walid Emar, Husein Sarhan, Rateb Al-Issa, Issam TTrad, and Mahmoud Awad:** *V/f* control of squirrel cage induction motor drives without flux or torque measurementdependency, **International journal of Robotics and Automation, Vol. 2, No. 2, 2011.(Scopus).**

    http://www.actapress.com/PaperInfo.aspx?PaperID=42497&reason=500

28. **Walid Emar, Moh'd Al-Eweisi, and Musbah J. Aqel:** A Novel Chopper Converter Topology For Improving The Performance Of Stepping Motors, Journal of E- Technology ,Volume 1,Issue 4, November, 2010, Pages 192-207.

    http://www.dline.info/jet/v1n4.php

29. **Walid Emar and Ziad Sobih:** Bi-level Control and Chopper Control Methods for Improving the Dynamic Performance of Stepper Motor, , **International Journal of Engineering (IJE), volume 4, issue 2, June/July 2010.**

    http://cscjournals.org/csc/manuscriptinfo.php?ManuscriptCode=72.73.68.44.48.53.53.99&JCode=IJE&EJCode=72.73.68.99&Volume=50.100&Issue=42.106

30. **Walid Emar, Issam Trrad, Rateb Issa:** A novel topology of delta modulation technique for improving the power factor of ac-dc converters, **International Journal of Engineering (IJE), volume 4, issue 1, March 2010.**

    http://www.cscjournals.org/csc/download/issuearchive/IJE_V4_I1.pdf

31. **Walid Emar***: Buck Regulators With or Without Magneically Coupled Filters, Dline Journals: Journal of Information Technology Review, volume 1, number 1, Febrauary 2010.*

32. **Musbah Aqel, Walid Emar, and Ibrahiem El-Emary:** ***MODELING AND SIMULATION OF A MODIFIED BANG- BANG HYSTERESIS CONTROL TECHNIQUE FOR A THREE PHASE PWM CONVERTER***, **European Journal of Scientific Research** Vol 23, No 2, 2008/2009. ***http://www.eurojournals.com/ejsr_23_2_09.pdf***

33. **Walid Emar, and Igrid Khawaldeh:** ***BUCK REGULATORS WITH MAGNETICALLY COUPLED FILTERS***, IEEE ICADIWT2009 Conference, The second international conference on the applications of digital and web technologies (ICADIWT 2009), SP: Signal Processing, pattern recognition and applications, ***www.dirf.org/diwt2009***, Uk between 4-6/8/2009.

34. **Walid Emar:** ***BUCK REGULATORS WITH MAGNETICALLY COUPLED FILTERS***, **Volume 1, Issue 1, February 2010, DLINE Journals portal**.

    http://www.dline.info/jitr/v1n1.php

35. **Walid Emar, A. Musbah, and I. M. M. El Emary:** ***DEVELOPING A NEW SIMULATION TECHNIQUE FOR PULSE BRIDGE RECTIFIER USED IN A. C. ELECTRIC DRIVES,*** **International** journal **of simulation**. **Systems**, science **and technology**, *Kingston University, UK*, Vol. 7, No. 9, pp. 70-76, December 2006. ***http://jissst.info/Vol-07/No-9/Paper5.pdf***

36. **Walid Emar, A. Musbah, and I. M. M. El Emary:** ***DOUBLE-PHASE CONNECTION OF SWITCHING CONVERTERS***, European Journal of Scientific Research, Vol. 16, No. 1, January 2007.http://www.eurojournals.com/ejsr 16 1.pdf

http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.91.8180&rep=rep1&type= pdf#page=139

CONFERENCE PRESENTATIONS

1. **Walid Emar, Zayed Huneiti:** Analysis, Synthesis and Simulation of Compact Two-channel Boost Converter for Portable Equipment Operating with a Battery or Solar Cell, ICCMIT'15 **Conference** Program, Prague, Czech Republic, 20-22 April 2015. **(Scopus).**
2. **Walid Emar, Omar A. Saraereh**: Double phase connection of Cúk Regulator with smoothing chokes, International Conference on: Communication, Management and Information Technology, Technical University of Madrid, Madrid, SPAIN April 2-4, 2018.
3. **Walid Emar, Zayed Huneiti:** A novel topology of PWM modification technique for cascaded invetrers, Management and Information Technology, Technical University of Madrid, Madrid, SPAIN April 2-4, 2018.

EXPECTED M.SC., PH.D. PUBLICATIONS AND PRESENTATIONS

1. **Emar, Walid:** Multi-phase connection of pulse converters with an inter-phase transformer or without it. Presentation at the Department of Power Electronics and Control Engineering, West Bohemia University, Pilsen, Czech Republic 3/2002.
2. **Emar, Walid and Vondrasek, Frantisek:** The continuous and the discontinuous currents of the double-phase switching regulator with an inter-phase transformer. International Conference, Applied Electronics 2001, Applied Electronics Department, West Bohemia University, Czech Republic 2001.
3. **Emar, Walid and Kus, Vaclav:** Analysis and Simulation of Origin Over-voltage on Asynchronous Motors, supplied by Converters of Frequency, with long supply-cables far from the Converters. Diploma thesis, West Bohemia University, Pilsen, Czech Republic 1996/97.
4. **Walid Emar, and Vondrasek Frantisek:** *Double-phase d.c. switching converter with inter-phase reactor.* Applied Electronics 2000, pp. 191-194,
5. **Walid Emar and Vondrasek Frantisek:** *COMPARISON OF DIFFERENT VARIANTS POWER ELECTRONIC PROCESSORS*, AMTEE´ 01, Czech Republic 2000.
6. **Walid Emar:** *Double-phase parallel connection of switching regulators with inter-phase transformer or without it*, AMTEE´ 01, Czech Republic 1999.
7. **Walid Emar and Vondrasek Frantisek:** *THE CONTINUOUS AND THE DISCONTINUOUS CURRENTS OF AN INTER-PHASE TRANSFORMER*, Applied Electronics 2001, pp. 256-259, Czech Republic 2001.
8. **Walid Emar:** *MULTI-PHASE PARALLEL CONNECTION OF D.C. - D.C. SWITCHING REGULATORS*, English Proceedings, section 1 – Neutral and English Sciences, Czech republic 2002.
9. **Walid Emar:** Vzájemné porovnání jednofázového pulsního měniče s dvoufázovými variantami [výzkumná zpráva] / Walid E´mar, František Vondrášek. — Číslo výzkumné zprávy: 22140-3-01. — Západočeská univerzita : Plzeň, 2001. — 61 s., TEC V00452, http://knihovna.zcu.cz/soubory/pc03.doc
10. **Walid Emar:** Double-phase parallel connection of d.c. - d.c. switching converter [stať] /

Walid E´mar, František Vondrášek. — České resumé. — In: Proceedings University of West Bohemia in Pilsen. 2002. — Plzeň : Západočeská univerzita, 2003. — ISBN 80-7082-949-4. — S. 21-32,TEC C03390, http://knihovna.zcu.cz/soubory/pc03.doc

WORKSHOPS OR TRAINING COURSES:

1. MATSUSHITA PANASONIC COMPANY FOR TV TECHNOLOGY.

AIM OF THE COURSE: QUALITY CONTROL

(Expected to be from: 2000 – 2001, LESS THAN SIX MONTHS)

MATSUSHITA PANASONIC COMPANY PROFILE:

A. PANASONIC is one of the leading producers of electric and electronic products known globally as PANASONIC.

B. PANASONIC is considered to be one of the best producers of TV technoilogy. The basis of procuction is the preparation of chasis and its testing. The technical support of these processes is provided by technical and quality control and adjusment in the final product.

2. SKODA FACTORY - DEPARTMENT OF ELECTRIC DRIVES AND TRAFFIC ENGINEERING FOR PRODUCING ELECTRIC DRIVES (TRAMS AND LOCOMOTIVES).

AIM OF THE COURSE: DESIGN AND CONSTRUCTION OF CONVERTERS (DYNAST AND SIMPLORER).

(Expected to be from: 2001 - 2002, LESS THAN SIX MONTHS)

SKODA COMPANY PROFILE:

A. PRODUCTION OF RAILWAY VEHICLES (ELECTRIC LOCOMOTIVES, ACCUMULATOR LOCOMOTIVES, METROCARS, TRAMCARS AND OTHER TYPES OF INDUSTRIAL CARS) HAS BEEN INCLUDED IN ŠKODA PLZEŇ PRIMARY PRODUCTION BRANCHES FOR A LONG TIME. AND NEW VOLTAGE SYSTEM OF THE TRACTION DRIVE WITH COMPUTER CONTROL WAS DEVELOPED AND IMPLEMENTED.

B. IN 1960´S AC LOCOMOTIVES WITH HIGH-VOLTAGE CONTROL AND SILICON RECTIFIERS WERE DEVELOPED AND PUT IN SERIES PRODUCTION.

C. IN 1990´S THE PRODUCTION LINE WAS DIVERSIFIED AND NEW VOLTAGE SYSTEM OF THE TRACTION DRIVE WITH COMPUTER CONTROL WAS DEVELOPED AND IMPLEMENTED.

D. SINCE 1997 **SKODA** HAS PRODUCED THIRTY MODERN LOW-FLOOR ONE-WAY TRAMCARS FOR CZECH TOWNS AND IN 2000-2002 ALSO TEN DERIVED TWO-WAY TRAMCARS FOR NORTH AMERICAN CITIES PORTLAND AND TACOMA.

3. FUJI KOYO – QUALITY CONTROL DEPARTMENT.

AIM OF THE COURSE: QUALITY CONTROL

(Between 2003 - 2004, LESS THAN SIX MONTHS)

POSSIBLE SOFTWARE SKILLS:

- **Operating Systems:** Windows, Excel.
- **Programming:** Pascal.
- **Editors:** Microsoft Word.
- **Graphic Design Tools:** Pro Engineer, Power Point, Paint, Windows live movie maker.
- **Simulation and Simulink Programs:** Simplorer 7, Dynast, Matlab.

LANGUAGE SKILLS

1. English
2. Czech
3. Arabic

RESEARCH INTERESTS

1. Electric machines.
2. Power electronics.
3. Simulation and control systems.
4. Electric drives and motors.
5. Control systems and power electronics.
6. Renewable Energy Systems
7. Modeling and Simulation

COMMITTEES

(Library, Social, Undergraduate students, etc…)

REFERENCES

Prof. Rami Maher	Rami.maher@iu.edu.jo	Dean of Scientific Research and Higher Studies, Isra University, Amman, Jordan
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Prof. Rami Hmouz	ralhmouz@kau.edu.sa	Assistant prof. at KAU, Jeddah, Saudia Arabia
Prof. Musbah Aqel	musbahaqel@yahoo.om	Prof. of computer Engineering at Applied Science Un., Amman, Jordan
Dr. Zayed Huneiti	zayedhuneiti@yahoo.om	Prof. of electrical Engineering at Applied Balqa Un., Amman, Jordan

Date: 2021 **Signature:** Walid Emar

جامعة الإسراء
Isra University

Ref : .....

Date : .....

الرقم : ع س/ ٢٧/ ١٣٩٠

التاريخ : ٥/ ٨/ ٢٠١٢

لمن يهمه الأمر

تشهد جامعة الإسراء بأن **الدكتور/ وليد محمد جبريل العمور**، تشيكي الجنسية، يعمل لديها بوظيفة عضو هيئة تدريسية في كلية الهندسة – قسم هندسة اتصالات والالكترونيات منذ تاريخ ٢٠٠٦/٢/١٩ ولا يزال على رأس عمله بالرتب التالية:

١. (أستاذ مساعد) من تاريخ ٢٠٠٦/٠٢/١٩ وحتى تاريخ ٢٠١١/١٠/١٨.

٢. (أستاذ مشارك) من تاريخ ٢٠١١/١٠/١٩ وحتى تاريخه.

وقد قام بتدريس المواد التالية :

- برنامج ماجستير إدارة المشاريع:
  - إدارة الطاقة
  - النمذجة والمحاكاة
- برنامج البكالوريس :
  - الكترونيات القوى
  - الدوائر الكهربائية ١ + ٢
  - الإشارات والنظم
  - أجهزة وقياسات
  - انظمه التحكم
  - الآلات كهربائية
  - تحليل انظمة القوى
  - كهرومغناطيسية ١ + ٢
  - دفع كهربائي

وبناءً على طلبه أُعطيت له هذه الشهادة.

رئيس الجامعة

أ.د. بسام ملكاوي

نسخة إلى : الملف الشخصي

ل.ج/م.ن

عمان - الأردن ص.ب : (٢٢ & ٣٣) مكتب بريد جامعة الإسراء ١١٦٢٢ هاتف : ٤٧١١٧١٠ (٦-٠٠٩٦٢) فاكس : ٤٧١١٥٠٥ (٦-٠٠٩٦٢)
Amman–Jordan P.O.Box (22&33) Isra University P.O.11622 Tel: 00962 6 4711710 Fax: 00962 6 4711505
Email : info@iu.edu.jo
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الرقم: ٣٦٤/٥/١
التاريخ: ١٩/ذو الحجة/١٤٣٧هـ
الموافق: ٢٤/٩/٢٠١٦م

إلى من يهمه الأمر

تشهد هيئة اعتماد مؤسسات التعليم العالي أن السيد وليد محمد جبريل العمور الذي يحمل شهادة الدكتوراه في: الهندسة الالكترونية الوثيقة الصادرة من وزارة التعليم العالي والبحث العلمي معتمد للتدريس ضمن المجال المعرفي (الآلات كهربائية) وأينما ورد في الخطط الدراسية لبرامج البكالوريوس، وذلك ضمن النسب المنصوص عليها بمعايير الاعتماد الخاص الصادرة عن الهيئة.

وبناءً على طلبه أعطيت له هذه الوثيقة.

وتفضلوا بقبول فائق الاحترام،،

رئيس هيئة اعتماد مؤسسات التعليم العالي وضمان جودتها

الأستاذ الدكتور بشير الزعبي

Higher Education
Accreditation Commission

هيئة اعتماد
مؤسسات التعليم العالي

الرقم : ٨٦٤/٦
التاريخ : ٢٤ - ربيع - ١٤٣١هـ
الموافق : ٧ - ٧ - ٢٠١٠م

إلى من يهمه الأمر

تشهد هيئة اعتماد مؤسسات التعليم العالي أن الدكتور وليد محمد جبريل أعمر والذي يحمل شهادة الدكتوراه في (الهندسة الإلكترونية) معتمد للتدريس في تخصص الهندسة الكهربائية المجال المعرفي (أنظمة التحكم)، ضمن النسب المحددة لأعضاء الهيئة التدريسية من حملة درجة الدكتوراه الوارده في معايير الاعتماد الخاص الصادرة عن الهيئة أينما ورد هذا المجال.

وبناءً على طلبه أعطيت له هذه الوثيقة.

وتفضلوا بقبول فائق الاحترام

رئيس هيئة اعتماد مؤسسات التعليم العالي

الأستاذ الدكتور اخليف الطراونة

المملكة الأردنية الهاشمية
الديوان
هيئة اعتماد مؤسسات التعليم العالي