

# Prof. Yousef G. El-jaafreh



## Contact

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## Other

**Place and Date of Birth:**

Jordan, 1951

**Nationality:**

Jordanian

**Marital Status:**

Married

## Languages

Arabic : Native.

English : Excellent (all skills).

## Educational Background

- **Ph.D.** Electrical Engineering, Wales University, United Kingdom (1990).
- **MSc.** Electrical Engineering, Wales University, United Kingdom (1987).
- **BSc.** Electrical Engineering, Royal College, United Kingdom (1978).

## Teaching Experiences:

- Professor of Electrical Engineering, Dept. Electrical Engineering, Mutah University, Sept. 2005 – present.
- Professor of Electrical Engineering, Dept. Electrical Engineering, Amman Private University, Sept. 2015 –sept. 2016.
- Professor of Electrical Engineering, Dept. Electrical Engineering, Isra Private University, Sept. 2008 –sept. 2012.
- Associate Professor of Electrical Engineering, dept. Electrical Engineering, Mutah University, Sept. 1997.
- Associate Professor of Electrical Engineering, Industrial Technology dept., Qatar University, Sept. 1999 - 2003.
- Assistant Professor of Electrical Engineering, dept. Electrical Engineering, Mutah University, 1990.

## Administrative Appointments:

- July 2020 – present, Acting President, Mutah University, Jordan.
- Oct. 2019 – present: Vice President, Mutah University, Jordan.
- Oct.2016 - 2019: Vice president for academic Affairs, Scientific Research and Research Centers, Mutah University, Jordan.
- Oct.2008 - 2012: Vice president for academic Affairs, Isra Private University, Jordan.
- Oct.2008-2012: Dean, Engineering College, Isra Private University, Jordan.
- 2010-2011: Dean, Scientific Research and Higher Studies deanship, Isra Private University, Jordan.
- 1999 -2003: Department Head, Industrial Technology Dept., Qatar University, Qatar.
- 1998-1999: Dean, Engineering College, Mutah University, Jordan.
- 1993- 1994: Dean, Engineering College, Mutah University, Jordan.
- 1995: Director, Maintenance Unit, Mutah University, Jordan.
- 1996: Director, Consultation Center, Mutah University, Jordan.

# Professional Experiences:

## A. Strategic Planning:

- Revising Mutah University strategic plan (2015 - 2020) by chairing the high committee for strategic planning.
- Preparing the operational plans for Mutah University strategic plan, its benchmarking and performance indicators (KPIs). Namely; developing teaching staff capabilities in terms of modern teaching methods and scientific research, computerizing university general requirement courses, etc.
- Participating in preparing a risk management plan for the University that focuses on possible risks and how to deal with them if they happen (2018).
- Participating in preparing code of professional ethics (2018-2019) that highlights ethics of scientific research regarding; trustfulness and confidentiality, autonomy and informed consent and justice.
- Supervising the Scholarship plan, Mutah University, 2016 – present.
- Head, Mutah University Budget Committee for the year 2020.

## B. Quality Assurance, Accreditation and Ranking Experiences:

- Revising the actuarial study to determine to the actual needs of mutah University for faculty staff-members in accordance with the standards of Jordanian Accreditation Board .
- Supervising the accreditation of the academic programs at Mutah University in coordination with Accreditation Board for Higher Educational Institutions.
- Supervising the applications regarding University World ranking including; QS World ranking, QS Arab Region ranking, THE word ranking, and THE Impact ranking.
- Participating in the quality assurance certificates obtained by college of Law and college of Sports and college of Agriculture.
- Supervising the Implementing of modern teaching methods via development of academic performance of faculty staff members, adoption of course portfolio, etc.
- Supervising operational plan for improving staff members to number of students ratio.
- Participating in developing Quality Assurance policies for the University and supervising proper implementation of these policies.
- Supervising the procedures for improving Competency Test results at Mutah University, 2016 – present.
- Head of several committees for the accreditation of some Electrical Engineering programs at Jordan University, Isra Private University, Philadelphia Private University, Applied Science Private University, Amman Private University, in accordance with Jordanian Accreditation Board Standards.

# Professional Experiences:

## C. Development of Academic Programs:

- Supervising more than twenty **new** postgraduate and undergraduate programs at Mutah University since 2016.
- Supervising the E-learning development, Mutah University, 2016 – present.
- Supervising the policies and procedures for the development of academic programs at Mutah University since 2016.
- External examiner for Electrical Engineering programs at some Gulf Universities.

## D. Development of Scientific Research:

- Developing strategic plan for scientific research centers, Mutah University, 2017 – present.
- Member of the steering committee to promote scientific research at Mutah University since 2016.
- Supervising automation of Deanship scientific procedures at Mutah University , furthermore, supervising the process for the Journal of Mutah Lil-Buhuth wad-Dirasat to join EBSCO database and is in the process of being hosted by Elsevier.
- Introducing incentive regulations to encourage researchers to publish in highly indexed and impacted factor world journals.
- Building strong relationship with industry in southern part of Jordan via Prince Faysal center for dead see studies.
- Head, coordination committee between Mutah University and the industry in southern part of Jordan.
- Head, coordination committee between Mutah University and Cement industry in Jordan.
- Head, coordination committee between Mutah University and Jordan Industrial Estates Corporation.
- Head, coordination committee between Mutah University and the Royal Jordanian Air Force.
- Member, Advisory Committee for developing Engineering Education, Jordan Engineers Association.

## E. Other Scientific Research Experiences:

- Member of the Editorial Board of Mutah Lil-Buhuth wad-Dirasat / Scientific stream for several years , Mutah University Journal ( scientific stream) .
- Member of the Editorial Board of Qatar University Scientific Research Journal 2002-2003.
- Member of the Advisory Board for the National Jordanian Electrical Engineering Journal sponsored by Ministry of Higher Education and Scientific Research since 2016.

## Professional Experiences:

- Member of Information and Communication Sector committee, Ministry of Higher Education and scientific Research, 2012-2017.
- Board of directors at the Higher Council for Science and Technology, Jordan, 2009-2013.
- Chief of committee for His Royal Highness Prince El Hassan Bin Talal Scientific Excellence Prize, 2010.
- Member, Judgement Committee, Appreciation Award for distinguished student in Computer Engineering, Ministry of Higher Education, Jordan , 2008.
- Reviewing many research studies in the field of electrical Engineering in the Journals of Jordan, Yarmouk University, Amman Private University, and Mutah University, as well as Journals of King Saud University and Qatar University.

### **F. Partnership with International Institutions:**

- Supervising some projects that are funded by the European Union; Tempus, Erasmus, Erasmus plus, STRDII and FP7.
- Establishing strong relations between Mutah University and European universities, namely; Barcelona, Madrid in Spain, Cork University College in Ireland and Tallinn Business School in Estonia.

### **G. Partnership with the Industry:**

- Establishing networking with Industrial sector, Technology sector, commercial sector and business sector to promote final year students graduation projects to create micro-enterprise and small enterprise businesses in cooperation with the Chambers of industry.
- Suggesting pilot / pioneering new ideas to establish nucleus of business incubator projects. At the same time contacting local, national, regional and international institutes aiming raising necessary funding.
- Consulting experts regarding incubators establishment, management, and marketing their products.
- Carrying out feasibility studies in terms of generating new jobs and the number of beneficiaries.

### **H. Membership in Professional Committees:**

- Member of the Council of Trustees, Amman Applied Private University, Jordan, 2009 – 2017.
- Board of Directors, Telecommunications Regulatory Commission, Jordan, 1995 -1997.
- Advisory Committee for the International Science and Engineering Fair, Ministry of Education, Jordan, 2006 -2015.
- General coordinator with Ministry of Higher Education and scientific Research for developing Higher Education at Mutah University since 1999.
- Member of several committees for preparing the national exams of Electrical Engineering (competency exam), Ministry of Higher Education.

## Research Interests & Selected Publications:

**Research interest include; Electrical Engineering, Smart Communication Systems, Digital Communications, Cellular Mobile Communications, networking, and electromagnetic waves propagation Interference.**

- El-jaafreh, Y., `` Co-and adjacent Channel Interference thresholds to and from European SECAM Television Versus Various Land Mobile radio Modulations" Fourth International Conference on Land Mobile Radio, University of Warick, Coventry, UK, 1987.
- El-jaafreh, Y., ``Experience With a Multi Rate Modem System for data Transmission Over 12.5 KHz Land Mobile Radio``, IEE Colloquium, LONDON, UK, 1990.
- El-jaafreh, Y., `` An Intelligent Frame Assembler and Disassembler Controller for Channel Monitoring Over Packet Radio Networks`` Mutah Journal Lil-Buhooth Wa- Aldirasat, Natural Applied science series Vol.10, No.[3], 1995.
- El-Jaafreh, Y., "Universities in Developed and Developing Countries in Serving Industry and Local Community ",26 th. International Conference on Computers & Industrial Engineering, 15- 17 Dec. 1999, Melbourne, Australia.
- El-jaafreh, Y., " Performance Analysis of the Coded SFH-SSMA Communication Systems over MUI Channel with Side information", IEEE Veh. Tech. 99 Conference, May 16-20,1999, Houston, USA.
- El- jaafreh, Y., " Performance Analysis of Coded SFH-SSMA Communication System Over MUI Channel With No Side Information " Engineering Journal ,Qatar University of Vol. 16, June 2003, pp.61-72.Qatar.
- El- jaafreh, Y., " Radio Frequency Channel Synthesizer For W-CDMA Mobile Cellular Communication Systems", International Journal for Modeling and Simulation ,Canada, Sept. 2008.
- El- jaafreh, Y., Enhancing Survivability, Lifetime, and Energy Efficiency of Wireless Networks" International Journal of Research in Engineering and Science (IJRES), Vol.2, issue 5 May 2014.pp. 07-13.
- El- jaafreh, Y.,"Performance Analysis of QOSTBC-OFDM System based on FEC codes". Advances in Natural and Applied Sciences. 31 Dec.2016 (10)17pp. 81-88.
- El-jaafreh, Y." Clustering techniques To Enhance Survivability of Wireless Networks". Submitted for Publications 2020.

## Projects & Funds:

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- Partner in the ERASMUS plus project funded by the European Union, entitled “Towards a National Qualifications Framework for Jordan NQF-J.” (2016).
- Partner in the ERASMUS plus project funded by the European Union, entitled “Modernizing Human Resource Management in South Mediterranean higher Education (RISE).” (2017).
- Partner in the ERASMUS plus project funded by the European Union, entitled “Introducing Recent electrical Engineering Developments into Undergraduate Curriculum (IREEDER).Aiming building the capacity of the higher education in Jordan.” (2018).
- Partner in the ERASMUS plus project funded by the European Union, entitled “Youth employment in remote Area in Jordan ( Job-Jo)”.(2019).

## Recent Conferences and Seminars Attended:

- Co-chair of the organizing committee, 5th. International Conference of Business Faculty, “Intelligent Practices to Enhance the Integrity and Transparency System to Combat Financial and Administrative Corruption.” Oct. 2019.
- Co-chair of the organizing committee, 3rd. International Conference of educational Sciences faculty, “Values in Academic Institutions and Their Role in Leadership.” 2019.
- Co-chair of the organizing committee, International Conference of Social Science faculty, “Our heritage between sustainability and Crises.” 2018.
- Co-chair of the organizing committee,” National strategies in the Face of Extremism and Global terrorism; Achievements and Ambition”, Faculty of graduate Studies. 2018.
- Co-chair of the organizing committee, 1st. International Conference of the Faculty of Pharmacy, “Modern Techniques in Pharmaceutical sciences, “2018.
- Participating in World Science Forum, Dead see –Jordan, 2017
- Co-chair of the organizing committee, 36th. Conference, “ The Future of the Faculties of Admission and Registration in Arab countries, “ 2017.
- Participating in the Erasmus plus project funded by the European Union, entitled “Towards a National Qualifications Framework for Jordan NQF-J.” University of Barcelona , Spain , 3-6 June, 2018.
- Participating in the Erasmus plus project funded by the European Union, entitled “Modernizing Human Resource Management in South Mediterranean higher Education (RISE).” Tallin, Estonia, 2018.
- Participating in the Erasmus plus project funded by the European Union, entitled “Towards a National Qualifications Framework for Jordan NQF-J.” University of College of Cork /Science and Technology, Ireland, 25-29 Sept, 2018.
- Participating in the Erasmus plus project funded by the European Union, entitled “Towards a National Qualifications Framework for Jordan NQF-J.” University of Madrid, Spain, 18-22 Oct., 2018.
- Participating in the Erasmus plus project funded by the European Union, entitled “Towards a National Qualifications Framework for Jordan NQF-J.” University of Brussels, Belgium, 14-15 Jan., 2019.
- Chair of organizing committee, 7th. International Conference of the Shariah Faculty of “Chaos of a Fatwa”, Dec., 14-16 Istanbul, turkey, 2019.
- Co-chair of the organizing committee,” National strategies in the Face of Extremism and Global terrorism; Achievements and Ambition”, Faculty of graduate Studies. 2018.

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- Participating in the Erasmus plus project funded by the European Union, entitled “Towards a National Qualifications Framework for Jordan NQF-J.” University of College of Cork / Science and Technology, Ireland, 25-29 Sept, 2018.
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- Chair of organizing committee, 7th. International Conference of the Shariah Faculty of “Chaos of a Fatwa”, Dec., 14-16 Istanbul, turkey, 2019.
- Attending many meetings organized by national and international accreditation boards such as ABET and others.

## University Committees:

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- Member of the committee supervising Mutah University Strategic Plan and following on its implementation, 2015-2020.
- Member, Deans Council, Mutah University, 2016 – present.
- Member, Deans Council, Isra University, 2008 – 2012.
- Head, Mutah University Budget committee, 2020.
- Member, Deans Council, Mutah University, 1993 – 1994.
- Member, Deans Council, Mutah University, 1998 – 1999.
- Member, Scientific Research Committee, 2016- present.
- Member, Scientific Research Committee, 2014- 2015.
- Member, recruitment and Promotion Committee, Mutah University, 2016 – present.
- Member, recruitment and Promotion Committee, Isra University, 2008 - 2012.
- Member, recruitment and Promotion Committee, Mutah University, 1998 – 1999.

## University Committees:

- Head, The Academic Syllabus committee, Mutah University, 2016 – present.
- Member, The Academic Syllabus committee, Isra University, 2008 -2012.
- Member, scholarship committee, Mutah University, 2016 – present.
- Member, Mutah University council, Mutah University 2016 – present.
- Member, Isra University council, Isra University 2008 – 2012.
- Head, graduate studies committee, Isra University 2008 – 2012.
- Member of the committee for supervising the re-design of Mutah University website, 2018.
- Head of committee for the developing, implementing of research and training agricultural center in Al-Ghoor area, 2018- present.
- Chair, College of Engineering Council, Mutah University, 1993,1994,1998,and 1999.
- Chairing more than 150 committees since 1990.
- Head, class schedule committee, Mutah University, 2016 – present.
- Head, Academic Syllabus development committee, Mutah University, 2016 – 2019.
- Head, Academic Experience Calculation Committee, Mutah University, 2016 – present.
- Head, Central Refereed Scientific Journals Approval Committee, Mutah University, 2016 – present.
- Head, Central Employee Committee, Mutah University, 2019 – present.
- Head, Central Organization Structure Committee, Mutah University, 2019 – present.
- Head, Central Employee Reward Committee, Mutah University, 2019 – present.
- Head, The Academic Syllabus development committee, Isra University, 2008 -2012.
- Member, scholarship committee, Mutah University, 2016 – present.
- Member, Mutah University council, Mutah University 2016 – present.
- Head of committee for the developing, implementing of research and training agricultural centre in Al-Ghoor area, 2018- present.
- Member of the committee for supervising the re-design of Mutah University website, 2018.
- Member, Isra University council, Isra University 2008 – 2012.
- Head, graduate studies committee, Isra University 2008 – 2012.
- Chair, College of Engineering Council, Mutah University, 1993 ,1994 ,1998, and 1999.
- Head, and member of more than **300** university committees at Mutah University, Qatar University, Isra Private University, and Amman Private University during my academic career.

## Community Service Activities:

- Supervising the operational plan for developing local area community regarding social responsibility, 2018.
- Director, Consultation Centre, Continuing Education and Community service, 1995 – 1997.
- Head, Advisory Board, Consultation Centre, Continuing Education and Community service, 1998 – 1999.
- Participating in the establishment centre to serve the talented university student as well as the high school talented students in the local community, 2018.
- Supervising an advanced modern agriculture project in local Community (Alghour) region by introducing new techniques (Hydroponics). The project aims at providing consultations to local community farmers in (Alghour) region, holding training workshops, and carrying out field experiments in order to improve various agricultural methods in planting.
- Participating in a project aiming at training new engineering and IT graduate students from local community in cooperation with ministry of Labor and the ministry of Digital Economy and Entrepreneurship.
- Holding many seminars and workshops in new advances in the field of Communications technology at Jordan Engineers Association / Al-Karak branch.
- Donating one hundred fifty textbooks in Electrical Engineering to Mutah University Library, 2018.

## Membership in Professional organizations:

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- Jordan Engineers Association, **JEA**, Jordan.
- Institute of Electrical Engineers, **IEE**, United Kingdom.
- Chartered Engineer, **CEng**, United Kingdom.
- Institute of Electrical and Electronics Engineers, **IEEE**, USA.

## Courses Taught; Undergraduate & Postgraduate levels

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- Communication Systems, Digital Communications, Mobile communications, Electronic Communication Circuits, Electrical Circuits 1 & 2, Radar Engineering Systems, Research Methodology, Information and Coding Theory, Smart Communications, Cellular Communications, Data Transmission, Computer networks, Probability Theory. Advance Digital Communication Systems, Modern Satellite Communications, etc.
- Supervising more than Thirty MSc theses in the field of Communication Systems and External examiner for more than Twenty Five theses in Jordanian universities and in the region.

## Awards, Scholarships, and Letters of Gratitude

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- PhD scholarship, Electrical Engineering, Wales University, United Kingdom, 1987 – 1990.
- MSc scholarship, Electrical Engineering, Wales University, United Kingdom, 1985 – 1987.
- BSc scholarship, Electrical Engineering, Royal College, United Kingdom, 1973 – 1978.
- Sabbatical leave, Qatar University, 1999 -2000.
- Sabbatical leave, Isra Private University, 2008 -2009.
- Sabbatical leave, Amman Private University, 2015 - 2016.
- More than Fifty letters of Gratitude from Presidents of Mutah University, Qatar University, Isra Private University, and Amman Private University.

## Military Experiences

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Joined Jordan Armed Forces, as an officer cadet at the Royal Military College in 1970, then a commissioned officer in 1972. In the year 1990 retired at the rank of Colonel. During the above period, I participated in extensive training courses in **military disciplines, management and leadership** in Jordan and outside Jordan, particularly ; British Royal air Force and United States of America Air Force, achieving an outstanding performance. Consequently, I was honored by His Majesty King Al Hussain Bin Talal (May God rest his soul), His Royal Highness Alhassan Bin Talal, Jordan Armed Forces Chief in staff, and Royal Jordanian Air force Commander.

## Computer Competency

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**I hold the International Computer Driving License (ICDL); Competent in computer operation skills;-**

- Concepts of Information Technology.
- Using and managing files.
- Word Processing, Spreadsheets, database and Presentation Software (Power Point).
- Internet –Web Basics.
- Graphics and Multimedia.

## Mutah University Achievements Report 2016 - 2020

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**Is available upon request.**