



CURRICULUM VITAE

1- PERSONAL INFORMATION

Name: Hussein Deab Al-Majali

Nationality: Jordanian

Place of Birth: Karak, Jordan

Date of Birth: 10th August, 1958

Marital Status: Married (Five Children)

Nationality of Spouse: Jordanian

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Mutah University

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2- QUALIFICATIONS

- **Ph.D.** in Electrical Engineering (Power Electronics)
 - Bradford University, England, 1991
- **M.Sc.** in Electrical Engineering (Power Electronics)
 - Bradford University, England, 1991
- **B.Sc.** in Electrical Engineering (Power Systems)
 - Damascus University, Syria, 1982

3. *ACADEMIC EXPERIENCE*

- Sept.2015 – Present** Princess Sumaya University for Technology
Academic Rank: Professor
- Sept.2006 – Sept.2015** Mutah University / Faculty of Engineering
Academic Rank: Professor
- Sept.2007 – Sept. 2008** Tafila technical University
(Sabbatical Leave) Academic Rank: Professor
- Sept.2003 – Sept.2006** Mutah University / Faculty of Engineering
Academic Rank: Associate Professor.
- Sept.1999 – Sept.2003** Ajman University, UAE
(Sabbatical Leave) Academic Rank: Associate Professor.
- Sept.1997 – Sept.1999** Mutah University / Faculty of Engineering
Academic Rank: Associate Professor.
- July.1992 – Sept.1997** Mutah University / Faculty of Engineering
Academic Rank: Assistant Professor.
- April. 1985 – April. 1987** Military Service / Armed forces of Jordan
- Sept.1982 – April.1985** Amman Polytechnic, Elect. Eng. Dept.
Academic Rank: Lecturer.

4- *ADMINISTRATIVE EXPERIENCE*

- 1- **Sept.2009- Sept.2013**
Dean of Faculty of Engineering, Mutah University, Jordan
- 2- **Sept.2009- Sept.2013**
Chairman of the Board of Directors of Prince Faisal Centre for
Dead Sea studies, Environment and Energy research, Jordan

- 3- Sept.2005 – Sept.2009**
Vice Dean of Faculty of Engineering, Mutah University.
- 4- Sept.2002 – Sept.2003**
Dean of Faculty of Engineering, Ajman University, UAE,
- 5- Sept.2000 – Sept.2002**
Deputy Dean of Faculty of Engineering, Ajman University, UAE,
- 6- Sept.1994 – Sept.1995**
Chairman of Electrical Engineering Department, Mutah University
- 7- Head of team for Preparation, Faculty of Agriculture at Mutah University, 1994.**

5- AWARD AND SCHOLARSHIPS

1. Al Hussein Medal for Distinguished Contribution to Excellence in Engineering Sciences (wesam). Award by King Abdullah II Ibn Al Hussein. Jordan, (2007)
2. Trophy and a certificate of appreciation, Royal Jordanian Society.2014
3. Trophy and a certificate of appreciation for the Hashemite University , 2013
4. Trophy of Mutah University ,2013
5. Trophy and a certificate of appreciation, University of Philadelphia , 2011
6. Award of the Ministry of Higher Education for the best research in engineering sciences, 2007.
7. Certificate of Excellence from the Ajman University of Science and Technology, UAE, 2001
8. Certificate of appreciation award for the best research. 37th science week Conference, Damascus, Syria, 1997.
9. Some of my research was rated among the top 25 hottest articles in the field of energy as classified by the Elsevier Publisher.
10. Received the award for best Engineering Faculty in the educational level of the Asia for 2011 in Dubai, UAE.
11. Scholarship granted by the Mutah University towards Ph.D in Electrical Engineering / Power Electronics. Bradford University, UK, 1987.
12. Scholarship granted by the Ministry of education towards B.Sc in Electrical Engineering / Power Systems. Damascus University, Syria, 1977.

6- COMMITTEES & ACTIVITIES

1. 2009–Present: Member of the Board of Trustees of Al Isra-University.
2. 2009- Present: Chairman of the Board of Directors of Prince Faisal Centre for Dead Sea studies, Environment and Energy research, Jordan
3. 2008-Present: Chairman of the postgraduate Faculty of Engineering/ Mutah University.
4. 2008-Present: Chairman of the training students of the Faculty of Engineering / Mutah University.
5. 2014 – present: Member of the editorial board of the Journal of the National Electrical Engineering.
6. 2012 – Present: Member of the Committee Master Renewable Energy Program (Mansour –TEMPUS) program funded by the European Union
7. 2012 – Present: Member of the Committee Master Intelligent Transport Systems Program (TEMPUS –JPCR) program funded by the European Union
8. 2012 : A member of the steering Committee for the workshop Jordanian Greek in the areas of scientific research
9. 2013 – Present: Consultant for Jordan Enterprise Development Corporation (JEDCO)
- 10.2013: Member of the Committee and put the foundations accept students of engineering colleges in Jordanian universities
- 11.2009-2010: Junior editor Mutah of Applied Sciences Journal
- 12.2006-Present: Supervisor of the Quality Assurance of exam International Computer Driving License (UNESCO - ICDL) for the Karak-Jordan.
- 13.2012 – External Examiner for Master Program of Electronic Engineering, Gulf University. Kingdom of Bahrain.
- 14.2012- Member of the Preparatory Committee for the Greek Jordanian cooperation in various research areas.
- 15.2012- Member of the energy sector, for Scientific Research support Fund, Jordan.
- 16.2006-Present:Member of the Committee applying the criteria of the American Academy in engineering education Abet
- 17.2007-2008: Chairman of the Committee on the Application of academic accreditation standards for electrical

engineering department at Tafila technical University, Jordan.

- 18.2007-2008: Chairman of the Scientific Committee - Faculty of Engineering - Tafila technical University, Jordan.
- 19.2007-2008: Member of the Disciplinary Appeals to members of the faculty - Tafila technical University, Jordan.
- 20.2007-2008: Member of the Scientific Committee, Tafila technical University, Jordan.
- 21.2007-2008: Chairman of the Committee of receipt of laboratories Department of Electrical Engineering at the Tafila technical University, Jordan.
- 22.2005-2007: Chairman of the postgraduate Faculty of Engineering/ Mutah University.
- 23.2005-2007: Chairman of the training students of the Faculty of Engineering / Mutah University.
- 24.2004-2005: Board member for model school in Mutah University
- 25.2005-2007: Member of the proficiency examination for students of Jordanian Universities.
- 26.1994-1995: Chairman of the Environment committee in Mutah University.
- 27.1992-Present: Chairman of several committees of the bids study at the University of Mutah.
- 28.2004-2005: Chairman of the Committee follow-up to receive the new building of the Faculty of Engineering at the University of Mutah.
- 29.1992-1997: member of the Commission on the Status comprehensive exam questions for community colleges of the Ministry of Higher Education.
- 30.2000-2003: Member of Technospher Centre at the University of Ajman, United Arab Emirates
- 31.2001-2003: Chairman of the training students of the Faculty of Engineering /Ajman University, UAE.
- 32.2002-2003: Chairman of the organizing committee of the first, second science week, Faculty of Engineering, Ajman University, UAE.
- 33.2002-2003: Chairman of the committee to provide books and periodicals of the Faculty of Engineering to the Library Ajman University.
- 34.2003: Implementation lecture for computer skills to engineers at Al-Ain power station, UAE
- 35.1992-1995: Member of the receipt of the buildings, the civilian wing of the University of Mutah

- 36.1993-1999: Member of the organizing committee of the first, second and third Jordanian conferences in Electrical Engineering, Mutah University, Jordan
- 37.1997-1998: Participated in preparing master level program for power systems in Mutah University
- 38.Chairman and member of committees of student union elections at the University of Mutah for several sessions.
- 39.Member of the Committees to discuss many of the MA and PhD dissertations within and outside Jordan.
- 40.Chairman of several committees of candidates for interview shall be appointed at the University of Mutah
- 41.Participation in several internal committees at the University of Mutah

7- COMMUNITY SERVICE

1. Member of doctor for each Factory program
2. Member of University Achievement Exam, Committee of Electrical Engineering, Ministry of Higher Education in Cooperation with ETS, 2005, 2006.
3. Chairman of the Environment Committee of the town of Merwed, Al-Karak, Jordan
4. Implementation 15 days training course in computer software to engineers at the mining and phosphate company in Jordan
5. Implementation 15 days training course in maintenance and control to engineers at the mining and phosphate company in Jordan
6. Implementation lecture for capacitors construction and their effects on the generation stations to engineers at Jordanian electricity company
7. Implementation of the session for Electrical Transformer maintenance at the Association of Engineers / Al-karak Branch.
8. Implementation of a course in environmental awareness at the Mutah University for workers in the municipalities of Karak
9. Implementation of a course in environmental awareness at Ministry of education – Directorate of education Mazar, Karak

10. Implementation of a course in environmental awareness at Ministry of education – Directorate of education Al-Kazer, Karak
11. Implementation of a seminar to the karak engineers about electric connection
12. Evaluate many patents submitted by Ministry of Industry and Trade.
13. Give many of the technical consultancies to the Jordan Electric Power Company.
14. Participation in the development of industry seminars

8- COMPUTER SKILLS

- International Computer Driving Licence (ICDL).
- Programming skills: Basic, Fortran , C++, JAVA SCRIPT, Visual Basic,
- Software Packages: Windows, Microsoft Office, Pspice, Orcad.
- EWB, Internet browsers, Matlab, Mathematic, Grapher and many others

9- SCIENTIFIC AND PROFESSIONAL MEMBERSHIPS

- Jordanian Engineers Association (JEA), Member
- Institute of Electrical and Electronics Engineers (IEEE), Member
- New York Academy of Science, Member
- Club of Arab engineers, Member

10- PROFESSIONAL REVIEW ACTIVITIES

- Reviewer of research papers for IEEE Transaction on Power Electronics Journal
- Reviewer of research papers for IEEE Power Electronics Conference (PESC)
- Reviewer of Energy Conversion Journal
- Reviewer of research papers for Inderscience Journals

- Reviewer of research papers for Electric Power Systems Research Journal (Elsevier)
- Reviewer of research papers for Electric Power Components and Systems journal (Taylor & Francis)
- Reviewer of research papers for many International Journals

<i>11-LANGUAGES</i>

- Arabic: Mother Tongue
- English: Very good

- ***RESEARCH INTERESTS***

Power Electronics, Electronic Devices, Electrical Circuits, Electrical Machines, Machine Drive and Renewable Energy

- ***PROJECTS FUNDED***

- a) Projects funded through Prince Faisal Centre for Dead Sea studies, Environment and Energy research.
 - 1- Green Universities Social Marketing and behaviour change methodology: A tool toward sustainable University in Jordan, Funded by USIAD (100000\$)
 - 2- Trans boundary Water Governness and Climate change in HKJ, Funded by NATO (250000 Euro)
 - 3- The Water Re-Use and Environmental Conservation Project, Funded by USIAD, (100000\$)
 - 4- Novel Methods to develop renewable water resource and model their dynamics with the existing water to deduce optimal water resources portfolio. Funded by JSP (Japan) (250000\$).

- b) Projects Funded through EU (TEMPUS)
 - 5- Partner of Modernizing Undergraduate Renewable Energy Education: EU Experience for Jordan”, MUREE, is TEMPUS project number 530332-TEMPUS-1-2012-1-JO-TEMPUS-JPCR, approved by the European Commission under grant agreement number 2012-3324/001-001.
 - 6- Partner of Intelligent Transport Systems Program

(TEMPUS –JPCR)

- 7- Partner of JoRIEW , 7th Framework Programme, aims at reinforcing the cooperation capacities of Jordanian research centres by facilitating closer scientific collaboration with a number of ERA located research centres and universities

12- PUBLICATION

- 1) **H. D. Al-Majali**, " Analysis of Harmonics for Modified Converters', (under Preparation). 2015
- 2) **H. D. Al-Majali** and B. H. Al-Majali, " Control of AC/DC Converter Under Unbalanced System Conditions", *Jordan Journal of Electrical Engineering (JJEE)*, Vol.1, No.1, 2015, pp 25 -36.
- 3) **H. D. Al-Majali** and B. H Al-Majali, " Reduced Harmonics generated of HVDC Converter Using By-Pass Valves" Transaction on Power Systems, (WSEAS), Vol.10, 2015
- 4) **H. D. Al-Majali**, and B. H. Al-Majali " , " Fast Control of a Modified of HVDC Converters", *International Conference on Advanced Technology & Sciences (ICAT'15)*, Antalya, Turkey, August, 2015.
- 5) **H. D. Al-Majali** and S. Al-Dhalaan, "Control of Series HVDC Bridges with Different Firing Angles" Transaction on Power Systems, (WSEAS), Vol.14, 2014, PP. 418 – 427
- 6) **H. D. Al-Majali** and S. Al-Dhalaan, "Comparison of Alternative HVDC Schemes", Submitted to IEEE Transaction on Power Electronics, 2015.
- 7) **H. D. Al-Majali**, "PWM Control of Induction Motor" Submitted Electric Power Components and Systems, (Taylor & Francis), 2015
- 8) **H. D. Al-Majali** and S. Al-Dhalaan, "Transient of Modified HVDC Converter", *Electric Power Systems Research (Elsevier)*, Vol.77, No. 10, 2007, PP. 1329 – 1336.
- 9) **H. D. Al-Majali**, "Abnormal Harmonics Generated by Modified HVDC Converters" *Electric Power Components and Systems (Taylor & Francis)*. Vol.35, No.6, 2006, PP 639 – 654.
- 10) **H. D. Al-Majali** and S. Al-Dhalaan, "A Snubber Configuration for

Modified Bridge Converter” Electric Power Components and Systems (Taylor & Francis) Vol.34, No.11, 2006, PP. 1177-1190.

- 11) **H. D. Al-Majali** and S. Al-Dhalaan, “Transient Response of Series Connected Bridges with Different Firing Angles”. Mutah Journal Lil-Buhooth Wa-Al-Dirasat (Natural & Applied Sciences Series), Vol.21, No.2, 2006, PP. 50-70.
- 12) **H. D. Al-Majali**, “Harmonics Generated by Modified HVDC Converters”, Mansoura Engineering Journal, Vol.31, No.1, 2006, PP. 44- 61.
- 13) **H. D. Al-Majali**, “Power Factor corrections using PWM”, Journal of Engineering, Vol.24, No.1, 2005, PP. 72 – 81.
- 14) **H. D. Al-Majali**, "Reduced harmonics generated of HVDC Converters Using By-Pass Valve", Journal of Engineering Science, Damascus University, Vol. 17, No.10, 2002, PP 115-122.
- 15) **H. D. Al-Majali**, “Voltage Control of Series – Connected Modified HVDC Bridge Using GTO Thyristor by-pass Valves”, Electric Power Systems Research (Elsevier), Vol. 49, No.2,1999, PP. 79-86.
- 16) S. Al-Dhalaan, **H. D. Al-Majali** and D. O’Kelly, “HVDC Converter Using Self – Commutated Devices”, IEEE Transactions on Power Electronics, Vol. 13, No.6, 1998, PP. 1164 – 1173.
- 17) **H. D. Al-Majali**, “Voltage Control of Modified Series – Connected HVDC Bridges”, Electric Power Systems Research (Elsevier), Vol.43, 1997, PP. 37 – 44.
- 18) **H. D. Al-Majali**, “Digitally Controlled Thyristor Converter Under Unbalanced System Conditions”, Journal of Engineering, , Vol.36, No.2, 1997, PP. 133 – 147.
- 19) **H. D. Al-Majali**, “Microprocessor Control of a Modified HVDC Converter”, Alexandria Engineering Journal, Vol. 36, No.2, 1997, PP.52 – 59.
- 20) **H. D. Al-Majali** and D. O’Kelly, “A Novel Strategy for Control of Cycloconverters, Electric Power Systems Research (Elsevier), Vol. 35, No.3, 1996, PP. 117-124.
- 21) **H. D. Al-Majali**, “Harmonics reduction of Modified HVDC Converter”, Electric power, Syrian Engineers Syndicate, Damascus, Syria, Vol.4, 1995, PP. 54-61.
- 22) **H. D. Al-Majali**, “Harmonics reduction of Modified HVDC Converter”, Electric power, Syrian Engineers Syndicate, Damascus, Syria, Vol.4, 1995, PP. 54-61.
- 23) S. Al-Dhalaan, **H. D. Al-Majali** and D. O’Kelly, "The control of HVDC Converters Using Modified Bridge Circuit", 29th UPEC, University of Galway, Ireland, Vol. 2, 1994, PP. 603-606.
- 24) S. Al-Dhalaan, D. O’Kelly and **H. D. Al-Majali**, " Commutation in HVDC Converters with by-pass Valves", 28th UPEC, Staffordshire

University, UK, Vol. 1, 1993, PP. 294-297.

- 25) **H. D. Al-Majali**, "Control of Three-phase Inverters", Electrical Engineering, Mutah University, 1993, PP. 54 -61.
- 26) **H. D. Al-Majali** and D. O'Kelly, "Control of an HVDC Converter Using GTO Thyristor By-Pass Valves", 26th UPEC (, Brighton Polytechnic, U.K, 1991, PP 36-39.
- 27) **H. D. Al-Majali** and D. O'Kelly, "Control of an HVDC Converter Using By-Pass Valves", 25th UPEC, Robert Gordon's Institute of Technology, Aberdeen, U.K, 1990. PP 652-656.
- 28) **H. D. Al-Majali**, " Harmonics Analysis of Modified AC/DC Converters" will Submitted to International Conference on Electrical Power and Energy Systems, Istanbul, Turkey, Feb, 2015.
- 29) **H. D. Al-Majali**, " Analysis of Modified HVDC converter" 14th International Conference on Electric Power System, High Voltages, Electric Machines, Lisbon, 30 October , 2014
- 30) **H. D. Al-Majali**, " Fast Control of Series HVDC converter", Submitted to International Conference on Electrical Power and Energy Systems, Barcelona, Spain, Oct, 2014
- 31) **H. D. Al-Majali**, "Control of Modified bridge in Series with Conventional HVDC Bridge", Power and Energy Systems- Europe's, Crete, Greece, June, 2011.
- 32) **H. D. Al-Majali**, "Novel Digital Circuit control of series converter ", International Conference of Electrical Engineering, Ajman University of and Science and Technology, UAE, 2002.
- 33) **S. Al-Dhalaan and H. D. Al-Majali**, "Analysis of Transient Response of HVDC Converter ", 4th International Conference on Quality Reliability and Maintenance, John Wiley & Son, Oxford, U.K, 2002.
- 34) **H. D. Al-Majali**, "Boost converter control of DC Motor", 3rd Electrical Engineering Conference, Mutah University, 1999.
- 35) **H. D. Al-Majali**, "PWM Control of Modified HVDC Converters", 39th science week Conference, Damascus, Syria, 1999.
- 36) **H. D. Al-Majali**, " Control of Modified Converter Under Unbalanced System Conditions" 37th science week Conference, Damascus, Syria, 1997.
- 37) **H. D. Al-Majali**, "Cycloconverter control of induction Motor", 2nd Electrical Engineering Conference , Mutah University, 1996.
- 38) **H. D. Al-Majali**, "Control of Three-phase Inverters", 1st Electrical Engineering Conference, Mutah University, 1993.

13- CONFERENCES & WORKSHOPS ATTENDED

1. 2nd International Conference on Interactive Mobile and Computer Aided learning. Princess Sumaya University for Technology, Amman, Jordan, April, 2007.
2. Third International Conference on Energy, Water & Environment (ICEWE 2013), Hashemite University, Zarqa, Session Chair, April, 2013.
3. 1st International Nuclear& Renewable Energy Conference, University of Science and Technology, March, 2010.
4. 7th conference The Future of Energy and Water in the Middle East, Assiut University, Egypt, March, 2011.
5. Advanced CSP Teaching Materials, University of Jordan, Nov, 2011.
6. Global Conference on Renewable Energy and efficiency for Desert Regions (GCREEDER 2011), University of Jordan, April, 2011.
7. Intelligent Semantic Web-Services and Applications (ISWSA 2011), Isra University, Jordan, April, 2011.
8. 7th Jordan International Electrical & Electronic Engineering Conference, (JIEEEEC 2011), Jordan Engineering Association, Jordan, April, 2011.
9. Global IEEE Engineering Education Conference, (EDUCON2011), Princess Sumaya University for Technology, Jordan, April, 2011.
10. Jordan International Energy Conference (JIEC), Jordan Engineering Association, Sept., 2011.
11. The 7th Intr. Multi- Conference on Systems, Signals and Devices, IEEE- SSD2010, Philadelphia University, Jordan, June, 2010.
12. Materials in Jordan: Future Prospective, Princess Sumaya University for Technology, Jordan, March, 2009.
13. Renewable Energy Conference EJREC & GCREEDER, Euro-Jordanian, Amman, Jordan, April, 2009
14. First Jordanian Conference on Accreditation and Quality Assurance of Higher Education. Amman/Jordan, December, 2005
15. International Conference on Renewable Energy and its Future in the Arab World (ICREFAW), Amman, Jordan, April 2013
16. Enterprise GIS for Defence in the Context of National Security, Amman, Jordan, June, 2013
17. 1st International Solar Energy Conference & 4th German-Jordanian Workshop, Amman, Jordan, Feb, 2012

18. 1st International Nuclear & Renewable Energy Conference, University of Science and Technology, March, 2010.
19. 7th conference The Future of Energy and Water in the Middle East, Assiut University, Egypt, March, 2011.
20. Advanced CSP Teaching Materials, University of Jordan, Nov, 2011.
21. Global Conference on Renewable Energy and efficiency for Desert Regions (GCREEDER 2011), University of Jordan, April, 2011.
22. Intelligent Semantic Web-Services and Applications (ISWSA 2011), Isra University, Jordan, April, 2011.
23. 7th Jordan International Electrical & Electronic Engineering Conference, (JIEEEC 2011), Jordan Engineering Association, Jordan, April, 2011.
24. Global IEEE Engineering Education Conference, (EDUCON2011), Princess Sumaya University for Technology, Jordan, April, 2011.
25. Jordan International Energy Conference (JIEC), Jordan Engineering Association, Sept., 2011.
26. The 7th Intr. Multi- Conference on Systems, Signals and Devices, IEEE- SSD2010, Philadelphia University, Jordan, June, 2010.
27. Materials in Jordan: Future Prospective, Princess Sumaya University for Technology, Jordan, March, 2009.
28. Renewable Energy Conference EJREC & GCREEDER, Euro-Jordanian, Amman, Jordan, April, 2009
29. Second Conference on Scientific research in Jordan, Amman/ Jordan, 2005
30. The 4th Jordanian International Electrical and Electronics Engineering Conference. Amman/Jordan, 2001
31. World Conference on Renewable Energy and Environment Protection. Alexandria/ Egypt, 1999.
32. Second World Conference on Technology Advances for Sustainable Development. Cairo/ Egypt. 2002.
33. International Conference on Electricity Distribution (CIRED), Arab Union of Producers, Transporters and Distributors of Electricity (AUPTDE), Amman, Jordan, June 1996
34. 37th Science Week, Damascus, Syria, Nove. 1997
35. 39th Science Week, Damascus, Syria, Nove. 1999
36. 3^h Jordanian International Electrical & Electronics Engineering Conference, Jordan Engineers Association, Amman, Jordan , April, 1999
37. Applications of Solar thermal energy in the Mediterranean Basin Conducted by Jordanian national Energy Research Centre. Amman / Jordan, 2003.

38. International Meeting on Nuclear Proliferation & Nuclear Energy, Amman/ Jordan, June 22, 2009.
39. Quality Assurance for Universities in the Middle East. Amman/Jordan. Conducted by UNESCO and the UNDP Higher Education Project, February 4, 2006
40. Seminar on environmental impact assessment for Electric Station of Qatraneh , Amman/Jordan, 2009
41. International Conference on Oil Shale “Recent Trends in Oil Shale”. Amman, Jordan, November ,2006
42. First Jordanian Conference on Accreditation and Quality Assurance of Higher Education. Amman, Jordan, December, 2005
43. World Conference on Renewable Energy & Environment , Alexandria, Egypt, November, 1999
44. More than forty conferences in different countries

14- COURSES TAUGHT

<p>Circuit Analysis I & II Power Electronics Transmission and Distribution Logic Design Network Synthesis Machine Drive Electrical Instrumentation & Measurements Energy Conversion</p>	<p>Electric Machines I , II Power Systems Electronic Devices I & II Industrial Electronics Computer Programming Power Stations</p>
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15- REFERENCES

- **Prof. Sultan Abo-Orabi**, Secretary General, Association of Arab Universities
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- 2- **Prof. Abdelrahim Al. Hunaiti**: The former president of Mutah University
 Jordan University – Amman - Jordan
 Mobile: 00962-79-9088080
- 3- **Prof. Rida A .Shibli**: President of Mutah University
 Mutah University- Alkarak - Jordan
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