# الاسم الكامل: زياد عبد العزيز الزهور

الدرجة العلمية: استاذ مشارك الوظيفة: استاذ جامعي

#### المعلومات الشخصية

القسم: العلوم الاساسية والانسانية

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مواقع التواصل:

#### • Google Scholar:

https://scholar.google.com/citations?user=ffk5u8QAAAAJ&hl=en

• Scopus:

https://www.scopus.com/authid/detail.uri?authorId=14059483200

• Researcher ID:

http://www.researcherid.com/rid/A-5123-2015

Research Gate:

https://www.researchgate.net/profile/Zeyad Al-Zhour

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http://orcid.org/0000-0002-8543-5497

• Publons (Clarivate Analytics):

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• LinkedIn:

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#### المهارات اللغوية

تحدث	كتابة	قراءة	اللغة
ممتاز	ممتاز	ممتاز	العربية
جید جدا	جید جدا	جید جدا	الانجليزية
			أخرى

### المؤهلات العلمية والشهادات (بدءا من الأحدث)

العنوان	مكان الصدور	الشهادة الأكاديمية	التاريخ
Serdang, Selangor, Malaysia	University Putra Malaysia	Ph.D	16 /01/ 2007
Mafraq, Jordan	Al al-Bayat University	MSc.	07 /10/ 1997
Al-Karak, Jordan	Mu'tah University	BSc.	08 /09/ 1994

### عنوان بحث كل من الدكتوراة والماجستير والزمالة

Generalizations and Some Applications of Kronecker and Hadamard Products of Matrices	الدكتوراة
Kronecker Products of Matrices and Some Applications	الماجتسير
	الزمالة

# السجل المهني (بدءا من الأحدث)

التاريخ	مكان وعنوان جهة العمل	رتبة الوظيفة
2018-4-5	قسم العلوم الاساسية / كلية الهندسة / جامعة الامام عبد الرحمن بن فيصل	استاذ مشارك
من 11-9-2010 الى 4-4-2018	قسم العلوم الاساسية / كلية الهندسة / جامعة الامام عبد الرحمن بن فيصل	استاذ مساعد
من 16-9-2007 الى 11-9-2011	قسم الرياضيات / كلية العلوم / جامعة الزرقاء	استاذ مساعد

# المناصب الإدارية (بدءا من الأحدث)

التاريخ	المكتب	المنصب الإداري
من 5-9-2011	قسم العلوم الاساسية / كلية الهندسة / جامعة الامام عبد الرحمن	رئيس قسم العلوم
الى 15-1-2011	بن فیصل	الاساسية والانسانية
من 14-9-2008	قسم الرياضيات / كلية العلوم / جامعة الزرقاء	رئيس قسم الرياضيات
الى 11-1-2010		·



# الإنجازات العلمية

الأبحاث العلمية المنشورة (بالتسلسل الزمني بدءا من الأحدث)

#	اسماء الباحثين	عنوان البحث	جهة النشر وتاريخ النشر
1	Zeyad Al- Zhour	Some New Linear Representations of Matrix Quaternions with Some Applications	Journal of King Saud University-Science, Vol. 31 (2019), pp. 42-47. (ISI) Doi: https://doi.org/10.1016/j.jksus.2017.05.017 Publisher: Elsevier-Thomson Scientific. ISSN: 1018-3647
2	Zeyad Al- Zhour	Notes and Counterexamples on Positive (Semi) Definite Property of Some Matrix Products	Ain Shams Engineering Journal, Vol. 9 (2018), pp. 3217-3220.  Publisher: Elsevier Ltd. on behalf of Ain Shams University-Thomson Scientific.  Doi: https://doi.org/10.1016/j.asej.2017.11.008  Publisher: Elsevier-Thomson Scientific. ISSN: 2090-4479.
3	Zeyad Al- Zhour	The General Solutions of Singular and Non-Singular Matrix Fractional Time-Varying Descriptor Systems with Constant Coefficients Matrices in Caputo Sense	Alexandria Engineering Journal, Vol. 55, Issue 2 (2016), pp. 1675-1681. Doi: https://doi.org/10.1016/j.aej.2016.02.024 Publisher: Elsevier-Thomson Scientific. ISSN:1110-0168
4	Zayed Al-Zuhiri,  Zeyad Al- Zhour and Khaled Jaber	The Exact Solutions of Such Coupled Linear Matrix Fractional Differential Equations of Diagonal Unknown Matrices by Using Hadamard Product	Journal of Applied Mathematics and Physics, Vol. 4, (2016), pp. 432-442. Doi: http://dx.doi.org/10.4236/jamp.2016.42049 Publisher: Scientific Research ISSN:2327-4379 (online), 2327-4379 (Print)

5	Zeyad Al- Zhour	New Techniques for Solving Some Matrix and Matrix Differential Equations	Ain Shams Engineering Journal, Vol. 6, Issue 1, (2015), pp. 347-354. Doi: https://doi.org/10.1016/j.asej.2014.08.009 Publisher: Elsevier-Thomson Scientific. ISSN: 2090-4479.
6	Zeyad Al- Zhour	Extension and Generalization Properties of the Weighted Minkowski Inverse in a Minkowski Space for an Arbitrary Matrix	Computers and Mathematics with Applications, Vol. 70, Issue 5, (2015), pp. 954-961. Doi: https://doi.org/10.1016/j.camwa.2015.06.015 Publisher: Elsevier-Thomson Scientific. ISSN: 0898-1221
7	<u>Zeyad Al-</u> <u>Zhour</u>	Several New Inequalities on Operator Means of Non-Negative Maps and Khatri- Rao Products of Positive Definite Matrices	Journal of King Saud University-Science, Vol. 26, Issue 1 (2014), pp. 21-27. Doi: https://doi.org/10.1016/j.jksus.2013.05.002 Publisher: Elsevier-Thomson Scientific. ISSN: 1018-3647
8	Zeyad Al- Zhour	The General (Vector) Solutions of Such Linear (Coupled)Matrix Fractional Differential Equations by using Kronecker Structures	Applied Mathematics and Computation, Vol. 232, (2014), pp. 498-510. Doi: https://doi.org/10.1016/j.amc.2014.01.079 Publisher: Elsevier-Thomson Scientific. ISSN: 0096-3003
9	Omar Abu Arqub, Ahmad El-Ajou, <b>Zeyad Al-</b> <b>Zhour</b> and Shaher Momani	Multiple Solutions of Nonlinear Boundary Value Problems of Fractional Order: New Analytic Iterative Technique	Entropy, Vol. 16, No. 1 (2014), pp. 471-493. Doi: <a href="http://www.mdpi.com/1099-4300/16/1/471">http://www.mdpi.com/1099-4300/16/1/471</a> Publisher: MDPI-Thomson Scientific. ISSN: 1099-4300

10	Ahmad El- Ajou, Omar Abu Arqu, <b>Zeyad Al-</b> <b>Zhour</b> and Shahir Momani	New Results on Fractional Power Series: Theory and Applications	Entropy, Vol. 15, No. 12, <b>(2013)</b> , pp. 5305-5323. Doi: <a href="http://www.mdpi.com/1099-4300/15/12/5305">http://www.mdpi.com/1099-4300/15/12/5305</a> Publisher: MDPI-Thomson Scientific. ISSN: 1099-4300
11	Hanifa Zekraoui, Zeyad Al- Zhour and Cenap Özel	Some New Algebraic and Topological Properties f the Minkowski Inverse in the Minkowski Space	The Scientific World Journal, Vol. 2013, (2013), Article ID 765732, 6 pages.  Doi: http://dx.doi.org/10.1155/2013/765732  Publisher: Hindawi-Thomson Scientific. ISSN:1537-744X (online), 2356-6140 (Print)
12	Zeyad Al- Zhour	Efficient Solutions of Coupled Matrix and Matrix Differential Equations	Intelligent Control and Automation, Vol. 3, No. 2, (2012), pp. 176-187. Doi: http://www.scirp.org/journal/ PaperInformation.aspx?PaperID=19244 Publisher: Scientific Research- An Academic Publisher ISSN:2153-0661 (online), 2153-0653 (Print)
13	Zeyad Al- Zhour	New Holder-Types Inequalities for the Tracy Singh and Khatri-Rao Products of Positive Matrices	International Journal of Computer Engineering Research, Vol. 3, No. 3, (2012), pp. 50-54. Doi: <a href="https://www.researchgate.net/">https://www.researchgate.net/</a> publication/233955124 Publisher: Academic Journals ISSN:2141-6494
14	Zeyad Al- Zhour	The Total Number of Squares and Rectangles are there in Rectangle (Square) Boards	International Journal of Open Problems in Computer Sciences and Mathematics, Vol. 5, No. 3 (2012), pp.152-159. Doi: https://www.researchgate.net/publication/233955119 ISSN:1998-6262
15	Adem Kilicman and <u>Zeyad Al-</u> <u>Zhour</u>	On Convergent Infinite Products and Some Generalized Inverses of Matrix Sequences	Abstract and Applied Analysis, Vol. 2011 (2011), Article ID 536935, 20 pages. Doi: http://dx.doi.org/10.1155/2011/536935 Publisher: Hindawi-Thomson Scientific. ISSN:1687-0409 (online), 1085-3375 (Print)
16	Zeyad Al- Zhour and Mutaz Al-	The Approximation Solutions of Coupled Matrix Riccati Convolution	International Journal of Mathematical Archive, Vol. 2, No. 4, (2011), pp. 452-464. Doi: https://www.academia.edu/3626445/ISSN:2229-5046

	Sabbagh	Differential Equations	
17	Adem Kiliçman and <u>Zeyad Al-</u> <u>Zhour</u>	Note on the Numerical Solutions of the General Matrix Convolution Equations by Using the Iterative Methods and Box Convolution Products	Abstract and Applied Analysis, Vol. 2010 (2010), Article ID 106192, 16 Pages. Doi: http://dx.doi.org/10.1155/2010/106192 Publisher: Hindawi-Thomson Scientific. ISSN:1687-0409 (online), 1085-3375 (Print)
18	Adem Kiliçman and <u>Zeyad Al-</u> <u>Zhour</u>	On the Connection between Kronecker and Hadamard Convolution Products of Matrices and Some Applications	Journal of Inequalities and Applications, Vol. 2009 (2009), Article ID 736243, 10 pages. Doi: <a href="https://link.springer.com/article/">https://link.springer.com/article/</a> 10.1155/2009/736243 Publisher: Springer-Thomson Scientific. ISSN:1029-242X
19	Zeyad Al- Zhour	Numerical Solutions of the General Matrix Convolution Equations Based on the Iterative Methods and Box Convolution Product	Far East Journal of Mathematical Sciences, Vol. 32, Issue 2, (2009), pp. 199-215. Doi: <a href="http://www.pphmj.com/journals/">http://www.pphmj.com/journals/</a> articles/476.htm  Publisher: Pushpa Publishing House- Thomson Scientific. ISSN:0972-0871
20	Adem Kiliçman and <u>Zeyad Al-</u> <u>Zhour</u>	The Representation and Approximation for the Weighted Minkowski Inverse in Minkowski Space	Mathematical and Computer Modelling, Vol. 37, Issues 3-4, (2008), pp. 363-371. Doi: https://doi.org/10.1016/j.mcm.2007.03.031 Publisher: Elsevier-Thomson Scientific. ISSN:0895-7177
21	Zeyad Al- Zhour	A Computationally- Efficient Solutions of Coupled Matrix Differential Equations for Diagonal Unknown Matrices	Journal of Mathematical Sciences: Advances and Applications, Vol. 1, No. 2, (2008), pp. 373-387. Doi: <a href="http://www.scientificadvances.co.in/artical/1/14">http://www.scientificadvances.co.in/artical/1/14</a> ISSN:0974-5750
22	Zeyad Al- Zhour, Ameen	Mathematical Properties of DNA Structure in 3-	International Journal of Open Problems in Computer Science and Mathematics, Vol. 1, No.2, (2008), pp. 214-221.

	Aqel and Abdalah Ibrahim	Dimensional Space	Doi: <a href="https://www.researchgate.net/">https://www.researchgate.net/</a> publication/251293536 ISSN:1998-6262
23	Zeyad Al- Zhour and Adem Kiliçman	The General Representations for the Weighted Drazin Inverse with Applications	East-West Journal of Mathematics, (Contribution in General Algebra II, ICMDA, (2008) pp. 205-216. This Volume is a special volume contains refereed papers presented at the "International Conference on Discrete Mathematics and Applications (ICDMA 2008)", March 5-7, 2008, University of the Thai Chamber of Commerce, Bangkok, Thailand.  ISSN:0125-2526, 1513-489X
24	Adem Kiliçman and Zeyad Al- Zhour	Vector Least- Squares Solutions of Coupled Singular Matrix Equations	Journal of Computational and Applied Mathematics, Vol. 206, Issue 2, (2007), pp. 1051-1069. Doi: <a href="https://doi.org/10.1016/j.cam.2006.09.009">https://doi.org/10.1016/j.cam.2006.09.009</a> Publisher: Elsevier-Thomson Scientific. ISSN: 0377-0427
25	Adem Kiliçman and <u>Zeyad Al-</u> <u>Zhour</u>	Kronecker Operational Matrices for Fractional Calculus and Some Applications	Applied Mathematics and Computations, Vol. 187, Issue 1, (2007), pp. 250-265. Doi: https://doi.org/10.1016/j.amc.2006.08.122 Publisher: Elsevier-Thomson Scientific. ISSN: 0096-3003
26	Zeyad Al- Zhour and Adem Kiliçman	Some New Connections between Matrix Products for Partitioned and Non-Partitioned Matrices	Computers and Mathematics with Applications, Vol. 54, Issue 6, (2007), pp. 763-784. Doi: https://doi.org/10.1016/j.camwa.2006.12.045 Publisher: Elsevier-Thomson Scientific. ISSN: 0096-3003
27	Zeyad Al- Zhour, Adem Kiliçman and Malik Hj Abu Hassan	New Representations for Weighted Drazin Inverse of Matrices	International Journal of Mathematical Analysis, Vol. 1, No. 15, (2007), pp. 697-708.  Doi: http://www.m-hikari.com/ijma/ijma-password-2007/ijma-password13-16-2007/index.html  Publisher: Hikari ISSN: 1312-8876 (Print), 1314-7579 (Online)

28	Adem Kiliçman and <u>Zeyad Al-</u> <u>Zhour</u>	Iterative Solutions of Coupled Matrix Convolution Equations	Soochow Journal of Mathematics, Vol. 33, No. 1 (2007), pp. 167-180. Doi: http://mathlab.math.scu.edu.tw/ mp/scu/00view.asp?eAutoID=88 Publisher: Soochow University ISSN: 0250-3255
29	Zeyad Al- Zhour and Adem Kiliçman	Some Topics on Weighted Generalized Inverse and Kronecker Product of Matrices	Malaysian Journal of Mathematical Sciences, Vol. 1, No. 1, (2007), pp. 109-122. Doi: <a href="http://einspem.upm.edu.my/">http://einspem.upm.edu.my/</a> journal/volume1.1.php Publisher: INSPEM, University Putra Malaysia ISSN: 1823-8343
30	Zeyad Al- Zhour and Adem Kiliçman	Matrix Equalities and Inequalities Involving Khatri- Rao and Tracy- Singh Sums	Journal of Inequalities in Pure and Applied Mathematics, Vol.7, Issue 1, (2006), Article 34, pp. 496-513.  Doi: <a href="https://www.emis.de/journals/JIPAM/article618.html?sid=618">https://www.emis.de/journals/JIPAM/article618.html?sid=618</a> Publisher: Victoria University- Thomson Scientific ISSN: 1443-5756
31	Zeyad Al- Zhour and Adem Kiliçman	Extensions and Generalization Inequalities Involving The Khatri-Rao Product of Several Positive Matrices	Journal of Inequalities and Applications, Vol. 2006, (2006), Article ID 80878, 21 pages. Doi: https://doi.org/10.1155/JIA/2006/80878 Publisher: Springer-Thomson Scientific ISSN: 1029-242X
32	Adem Kiliçman and <u>Zeyad Al-</u> <u>Zhour</u>	Improvements on Geometric Means Related to the Tracy-Singh Products of Positive Matrices	Matematika –Malaysian Journal of Industrial and Applied Mathematics, Vol. 21, No. 2 (2005), pp. 49-65. Doi: http://www.matematika.utm.my/index.php/matematika/issue/view/33 Publisher: Universiti Teknologi Malaysia ISSN: 0127-8274
33	Zeyad Al- Zhour and Adem Kiliçman	New Algebraic Method for Solving the Axial N- Index Transportation Problem Based on the Kronecker Product	Matematika, Malaysian Journal of Industrial and Applied Mathematics, Vol. 21, No. 2 (2005), pp. 113-123.  Doi: http://www.matematika.utm.my/index.php/matematika/issue/view/77  Publisher: Universiti Teknologi Malaysia ISSN: 0127-8274

34	Adem Kiliçman and <u>Zeyad Al-</u> <u>Zhour</u>	The General Common Exact Solutions of coupled Linear Matrix and Matrix Differential Equations	Journal of Analysis and Computation, Vol. 1, No.1, (2005), pp. 15-29.
35	Zeyad Al- Zhour and Adem Kiliçman	A New Algebraic Method for Solving the Balanced Transportation Problem (BTP) Based on the Kronecker Product	IRSIAM Journal on Applied Mathematics, Vol. 1, No. 1, ( <b>2005</b> ), pp. 64-80.

### الأبحاث العلمية المرسلة للنشر

#	اسماء الباحثين	عنوان البحث	اسم المجلة	تاريخ الارسال
1	Ahmad El- Ajou and <u>Zeyad Al-</u> <u>Zhour</u>	New Results and Computational Technique for Solving Some Linear and Non- Linear Matrix Fractional Differential Equations	International Journal of Applied Mathematics and Computer Science. Publisher: University of Zielona Gora-Thomson Scientific	12-1-2019
2	Ahmad El- Ajou, Moa'ath Oqielat and <u>Zeyad Al-</u> <u>Zhour</u>	Matrix Fractional Taylor's Formula: New Results and Some Applications	Communications in Nonlinear Science and Numerical Simulation. Publisher: Elsevier- Thomson Scientific	17-12- 2018

# الأبحاث العلمية المقدمة لتحكيم المؤتمرات العلمية المتخصصة

#	اسماء الباحثين	عنوان البحث	المؤتمر وتاريخ النشر
1	Zeyad Al-Zhour	Generalizations of Ando's Geometric Mean on Positive Matrices and Some Related Inequalities	The Third Conference on Mathematical Sciences (CMS'2011), 27-29 April, <b>2011</b>
2	Zeyad Al-Zhour	A Note on the Solution of the General Linear Matrix Differential Equations	International Conference on "Computational Methods and Function Theory (CMFT 2009)", 08-12 June 2009.

3	Zeyad Al-Zhour and Adem Kiliçman	The General Representations for the Weighted Drazin Inverse with Applications	International Conference on "Discrete Mathematics and Applications (ICDMA 2008)", 5-7 March, 2008
4	Zeyad Al-Zhour and Adem Kiliçman	The Riemann-Liouville Fractional Integral of Matrices with Applications	International Symposium on "Geometric Function Theory & Applications, 22-24 August, 2007

# المشاريع البحثية المنتهية

#	اسماء الباحثين / الجهه الممولة	عنوان البحث	تاريخ البحث
1	Zeyad Al-Zhour (Funded by University of Dammam)	The General Vector Solutions of Such Systems of Matrix Fractional Differential Equations	From: 06-05- 2013 To: 06-08-2014
2	Mutaz Al-Sabbagh and  Zeyad Al-Zhour  ( Funded by University of Dammam)	Computational Algorithm for the K—TH Chow Ring of A T- Variety and Some Applications	From: 06-05- 2013 To: 06-05-2014
3	Zeyad Al-Zhour and Mutaz Al-Sabbagh (Funded by University of Dammam)	Tracy-Singh and Khatri- Rao Products of Matrices and Some Applications	From: 01-02- 2012 To: 01-12- 2012
4	Zeyad Al-Zhour and Mutaz Al-Sabbagh (Funded by University of Dammam)	Convolution Products of Matrices and Some Applications	From : 15-01- 2011 To 15-09- 2011

### الأبحاث الحالية

#	عنوان البحث	(اسماء الباحثين
1	Representations and Applications of Dual and Hyperbolic Matrices	Zeyad Al-Zhour
2	Matrix Fractional Differential Equations	Zeyad Al-Zhour & Ahmad El-Ajou
3	Conformable Fractional Differential Equations	Zeyad Al-Zhour, Nouf Al-Mutairi & Fatimah Al- Rawajeh

# المساهمات في المؤتمرات والندوات العلمية

#	عنوان المؤتمر (ورشة العمل)	المكان والتاريخ	مجال المساهمة
1	The Pursuit of Excellence in Mentoring in Higher Education	Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 6 <sup>th</sup> November, 2018.	Attendance
2	Risk Management Planning in Higher Education	Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 21 <sup>st</sup> March, 2017	Attendance
3	3 <sup>rd</sup> International Symposium on Big Data and Cloud Computing Challenges (ISBCC' 16)	VIT University, Chennai Campus, India, 10-11 March, 2016.	Program Committee
4	ملتقى ومعرض السلامة المرورية الثالث – الشباب والسلامة المرورية	University of Dammam, Dammam, Shiraton Hotel, Saudi Arabia, 23 <sup>th</sup> - 25 <sup>th</sup> November, 2015.	Attendance
5	Motivating Students and Learning	Dean of Education Development, University of Dammam, Saudi Arabia, 17 <sup>th</sup> November, 2015	Attendance
6	Situation Analysis and Orientation	University of Dammam and Thomson Reuters Strategic Partnership, University of Dammam, Saudi Arabia, 25 <sup>th</sup> May, 2015.	Attendance
7	مؤتمر التميزفي تعليم وتعلم العلوم والرياضيات الأول- توجه العلوم والتقنية والهندسة والرياضيا ت	University of King Suad, Riyad, Saudi Arabia, 5-6 May, 2015.	Participant
8	Conference: 2 <sup>nd</sup> International Symposium on Big Data and Cloud Computing Challenges (ISBCC15)	VIT University, Chennai Campus, India, 12-13 March, 2015	Program Committee
9	International Conference of Engineering Mathematics and Applications (ICEMA 2014)	Venice, Italy, 12-13 November, 2014	Conference Committee
10	Using Multiple Choice Items to Test Higher-Order Thinking Skills	Deanship of Education Development, University of Dammam, Saudi Arabia, 28 <sup>th</sup> October, 2014.	Attendance
11	Third International Conference on Quality	University of Dammam, Dammam, Shiraton Hotel, Saudi Arabia, 27 <sup>th</sup> -	Attendance

	Assurance in Postsecondary Education	29 <sup>th</sup> April, 2013	
12	The Eighth National GIS Symposium in Saudi Arabia	University of Dammam, Dammam, Shiraton Hotel, Saudi Arabia, 15 <sup>th</sup> - 17 <sup>th</sup> April, 2013.	Attendance
13	Teaching Skills in the 21 <sup>st</sup> Century	Dean of Education Development, University of Dammam, Saudi Arabia, 17 <sup>th</sup> -18 <sup>th</sup> February 2013.	Attendance
14	2 <sup>nd</sup> Research Methods and Applied Statistics	College of Applied Medical Sciences- University of Dammam , Saudi Arabia, 4-5 May, 2013	Participant
15	المحاضر ة التفاعلية	Deanship of Education Development, University of Dammam, Saudi Arabia, 28 January, 2013.	Attendance
16	Communication Skills	Dean of Education Development, University of Dammam, Saudi Arabia, 03 <sup>th</sup> December, 2012.	Attendance
17	Interactive Lecturing Skills	Dean of Education Development, University of Dammam, Saudi Arabia, 26 <sup>th</sup> November, 2012.	Attendance
18	Building a Leaner-Centered Learning Process of a Course Based on Constructivism Concept	Dean of E-Learning and Distance Learning– University of Dammam, Saudi Arabia, 26 <sup>th</sup> -29 <sup>th</sup> March, 2011	Attendance
19	Facilitation will Lead Faculty Participants, Grouped by Colleges/ Clusters, in Discussing Action Plans for the E-Learning and Distance Learning Opportunities in their Disciplines	Dean of E-Learning and Distance Learning– University of Dammam, Saudi Arabia, 26 <sup>th</sup> -29 <sup>th</sup> March, 2011	Attendance
20	The Third Conference of Mathematical Sciences (CMS'2011)	Zarqa University, Jordan, 27 <sup>th</sup> -29 <sup>th</sup> April, 2011.	Committee and Participant
21	Matrix Products on Matrices and Their Applications	Faculty of Science / Girls Faculty / University of Dammam/KSA, 14-05-2011	Speaker
22	Building a Leaner-Centered Learning Process of a Course Based on Constructivism Concept	University of Dammam, 26 <sup>th</sup> -29 <sup>th</sup> March, 2011.	Attendance
23	S and T Statistics and Policy Making	ISESCO – Islamic Republic of Pakistan 5 <sup>th</sup> -7 <sup>th</sup> May, 2009.	Attendance

24	Computational Methods and Function Theory (CMFT 2009)	Bilkent University, Ankara, Turky, 08-12 June, 2009.	Participant
25	Mathematical Properties of DNA	Faculty of Allied Medical Sciences / Zarqa University / Jordan, 18 <sup>th</sup> April, 2008.	Speaker
26	International Conference on Discrete Mathematics and Applications	The University of the Thai Chamber of Commerce (UTCC), Bangkok, Thailand, 5 <sup>th</sup> -7 <sup>th</sup> March, 2008.	Participant
27	E-Learning Training by using "Moodle System"	Zarqa University, Zarqa-Jordan, 16- 20 September, 2007	Participant

### العضويات واللجان المشارك فيها

	الجزء الاول : عضوية اللجان
1	" الجمعية الأرننية للبحث العلمي"   Member of " <u>Jordan Society for Scientific Research</u> "
2	Member of "Research Group in Mathematical Inequalities and Applications (RGMIA)" Victoria University, Australia & Canada.
	Chairman of Organizing Committee and a member of Technical Committee of "The
3	Third Conference on Mathematical Sciences (CMS'2011)", 27 -29 April, 2011, Zarqa
	University, Zarqa , Jordan
	Coordinator and a member of Organizing and Technical Committee of "The Second
4	Conference on Mathematical Sciences (CMS'2008)", 22 -23 October, 2008, Zarqa
	University, Zarqa , Jordan.
5	Member of " <u>Jordanian-Egyptian Research Team Focusing on Authoring and Translation of Books</u>
6	Member of "Researcher Gate Scientific Network".
7	Member of Program Committee of "International Symposium on Big Data and Cloud Computing Challenges (ISBCC 2016)", 10-11 March, 2016, VIT University Chennai Campus-Schools of Computing Sciences- India.
8	American Mathematical Society (AMS).

	الجزء الثاني : العضوية في الهيئات العلمية في مجلات عالمية محكمة
1	Membership of Editorial Board of "American Journal of Operational Research
'	(AJOR)–USA", Scientific and Academic Publishing.
	Membership of Editorial Board of "Journal of Mathematics Sciences: Advanced and
2	Applications, Scientific Advances Publishers.
	Membership of Editorial Board of "Journal of Pure and Applied Mathematics:
3	Advanced and Applications (JPAM:AA)", Scientific Advances Publishers.
4	Membership of Editorial Board of " <u>Journal of Algebra, Number Theory: Advanced</u>
4	and Applications, Scientific Advances Publishers.
5	Membership of Editorial Board of "Malaysian Journal of Mathematical Sciences",
	INSPEM, University Putra Malaysia.
6	Membership of Editorial Board of "International Journal of Mathematical Archive",
	Published by: Scientific Research.
7	Membership of Editorial Board of "International Journal of Applied and Computational
1	<u>Mathematics.</u> Springer.
8	Membership of Editorial Board of " <u>Advanced in Difference Equations"</u> . Springer.
9	Membership of Mathematical Peer Reviewer of "Computers and Mathematics with
9	Applications, Elsevier Journal- Published by Thomson Scientific.
10	Membership of Mathematical Peer Reviewer of "Applied Mathematics Letters,
10	Elsevier Journal- Published by Thomson Scientific.
11	Membership of Mathematical Peer Reviewer of " <u>Mathematical and Computer</u>
	<u>Modeling</u> , Elsevier Journal- Published by Thomson Scientific.
12	Membership of Mathematical Peer Reviewer of "World Scientific and Engineering
12	Academy and Society (WSEAS)", Famous University of Harvard, USA.
13	Membership of Technical Committee of "The Third Conference on Mathematical
13	Sciences (CMS'2011), Held on 27-29 April 2011, Zarqa University, Zarqa, Jordan.
1.4	Membership of Technical Committee of "The Second Conference on Mathematical
14	Sciences (CMS'2008)", Held on 22-23 October 2008, Zarqa University, Zarqa ,

	Jordan.
	Membership of Editorial Board "American Journal of Networks and Communications",
15	Published by Science Publishing Group.
16	Membership of Editorial Board " <u>Scientific Research and Essays</u> ", Academic Journals.
1_	Membership of Peer Reviewer of "Advances in Numerical Analysis", Hindawi
17	Publisher Corporation-USA.
40	Membership Editorial Board of "The Open Numerical Methods Journal", BENTHAM
18	OPEN- University of Texas-Pan American, Texas, USA., Texas, USA.
1.0	Membership of Peer Reviewer of "British Journal of Mathematics and Computer
19	<u>Science</u> ", SCIENCEDOMAIN International, UK.
00	Membership of Editorial Board of "Open Journal of Technical Sciences", Kindi
20	Publication.
	Executive Editor of "Journal of Innovative Research in Engineering and Sciences",
21	Global Research Publishing.
00	Membership of Editorial Board of "Oriental Journal of Pure and Applied Mathematics",
22	Research and Analysis International, Italy.
00	Membership of Peer Reviewer of "Journal of the Egyptian Mathematical Society",
23	Elsevier.
0.4	Membership of Peer Reviewer of "American Journal of Theoretical and Applied
24	Statistics", Science Publishing Group, Italy.
	Membership of Editorial Board of "Advances and Applications in Mathematical Logic
25	and Sciences, International Scientific Academic Corporation, India.
	Membership of Peer Reviewer of "International Journal of Advanced Intelligence
26	Paradigms", Inderscience Publisher.
0.7	Membership of Editorial Board of "Operation Research and Applications: An
27	International Journal.
	Membership of Program Committee "2 <sup>nd</sup> International Symposium on Big Data and
28	Cloud Computing Challenges (ISBCC'15)", VIT University, Chennai Campus, 12-13
	March, 2015, India
29	Membership of Program Committee "3 <sup>rd</sup> International Symposium on Big Data and

	Cloud Computing Challenges (ISBCC' 16)", VIT University, Chennai Campus, March
	10-11, 2016.
	Membership of Editorial Board of "American Journal of Computation, Communication
30	and Control", American Association for Science and Technology (AASCIT).
	Membership of Peer Reviewer of "International Journal of Applied Mathematics and
31	Computational Mathematics", Springer.
32	Membership of Peer Reviewer of "Special Matrices", Poland

# أنشطة التدريس

#### الجامعية

# الجزء الاول: المقررات الجامعية التي تم تدريسها في جامعة الامام عبد الرحمن بن فيصل:

#	عنوان المقرر	رقم المقرر	عدد الساعات	وصف مختصر للمقرر
1	Calculus I	MATH261	5	Functions, Differentiations and Integrations and their applications
2	Calculus II	MATH262	5	Parametric Equations, Vectors, Partial Derivatives, Double and Triple Integrals, Areas and Volumes.
3	Differential Equations	MATH331	3	1 <sup>st</sup> -Order Differential Equations, 2 <sup>nd</sup> Order Differential Equations, Higher Order Differential Equations, Systems of Differential Equations, Laplace Transforms and Power Series Solutions
4	Linear Algebra	MATH302	4	Matrices: operations and Properties, System of Linear Equations, Vector Spaces, Eigen values and Eigen vectors and Some applications.
5	Probability and Statistics	MATH411	4	Basic Concepts of Statistics, Organization and Description of Data, Descriptive Study of Bivariate Data, Probability, Probability Distributions, Discrete and Continuous Distributions, Test of Hypothesis, Correlations and Linear regression.
6	Operation Research	TTENG 441	3	Importance of Operation Research, Linear and Non-Linear Programming, Optimal solutions of Linear Programming by Graphs, Simplex Methods, Big M Methods, Transportation Problems, Graph Theory, Network Problems and Some Engineering

				Problems.
6	Numerical Methods	MATH 444	3	Numerical solutions of non-linear equations, numerical solutions of systems of linear equations, numerical integration, numerical differentiations and numerical solutions of Parabolic, Hyperbolic and Elliptic partial differential equations.

# الجزء الثاني: المقررات الجامعية التي تم تدريسها في جامعة الزرقاء:

#	اسم المقرر	رقم المقرر	عدد الساعات
1	Calculus I	0301101	3
2	Calculus II	0301102	3
3	Calculus III	0301201	3
4	Linear Algebra	0301441	3
5	Complex Analysis	0301413	3
6	Introduction to Functional Analysis	0301414	3
7	Numerical Methods	0301472	3
8	Ordinary Differential Equations	0301203	3
9	Ordinary Differential Equations	0301403	3
10	Special Functions	0301301	3
11	Integral Transforms	0301401	3
12	Vector Analysis	0301303	3

### الدراسات العليا

#	اسم المقرر	رقم المقرر	عدد الساعات	وصف مختصر للمقرر
1	Selected Topics in Differential Equations		3	Solutions of Differential Equations by Laplace Transforms, Fourier Transforms and Power Series, Matrix Differential Equations by using Kronecker Products, Rules of Fractional Calculus, Solutions of Fractional Differential Equations and Matrix Fractional Differential Equations.
2	Research Methodology		2	Planning for preparing Master Thesis and Ph.D Thesis
3	Selected Topics in Analysis		3	Advanced topics in Measure Theory, Topology and Complex Analysis.

3	Special	MATH	3	Advanced topics in Special functions such as
	Functions	555		Gamma and Beta Functions, Mittag-Leffler
				functions, Fractional calculus and Fractional
				differential equations.

# الإرشاد الأكاديمي للطلاب

#	المرحلة	عدد الطلاب	من	الى
1	Undergraduate Students	200 students per Academic year	2007	Present
1	Postgraduate Students	3 students per Academic year	2007	Present

### الإشراف على رسائل الماجستير والدكتوراة

#	الشهادة العلمية	اسم الطالب	المعنوان	الجهة	التاريخ
1	Master	Manal Amoudi	Fractional Calculus and Some Applications	Department of Mathematics /Faculty of Science- Girls Faculty/ University of Dammam / Dammam / KSA	15/4/2015
2	Master	Tariq Al- Khoshma n	The Weighted Moore-Penrose Inverses of Matrices and Some of Their Applications	Department of Mathematics/ Faculty of Science / al-Al- Bayt University /Al-Mafraq / Jordan	05/8/2010

# الإشراف على الرسائل الجارية

#	الشهادة العلمية	اسم الطالب	المعنوان	الجهة	التاريخ
1	Master	Nouf Al-Motairi	Analytic Solutions of some Conformable Fractional Differential Equations by Using Efficient Methods	Department of Mathematics /Faculty of Science- Girls Faculty/ Imam Abdulrahman Bin Faisal University/ Dammam/KSA	6-1-2019 to Present

# المهمات الإدارية واللجنات وخدمة المجتمع (بداءا من الأحدث)

# المهمات الإدارية

#	من	الى	المنصب	الجهة
1	05-09-2011	15-1-2016	Chairman	Department of Basic Sciences and Humanities- College of Engineering - University of Damma - KSA.
2	14-09-2008	11-09-2010	Chairman	Department of Mathematics - Faculty of Science and Information Technology - Zarqa University - Jordan
3	15-09-2009	11-09-2010	Chairman of Organizing Committee	Third Conference on Mathematical SciencesZarqa University -Jordan
4	01-10-2007	21-10-2008	Coordinator of Organizing Committee	Second Conference on Mathematical Sciences- Zarqa University-Jordan

# عضوية اللجنات

#	من	ائی	المتصب	الجهة
1	1-10-2010	Present	Committee Membership	Jordan Society for Scientific Research - Ministry of Higher Education
2	15-09- 2009	11-09- 2011	Organizing and Technical Committee	3 <sup>rd</sup> Conference on Mathematical Sciences
3	01-10- 2007	21-10- 2008	Organizing and Technical Committee	2 <sup>nd</sup> Conference on Mathematical Sciences
4	12-8-2007	Present	Committee Membership	Research Group in Mathematical Inequalities and Applications
5	1-9-2010	15-6-2014	Coordinator Membership	e-Learning and Distance Learning" College of Engineering-University of Dammam
6	11-9-2018	Present	Committee Membership	Egyptian research team focusing on authoring and translation of books in addition to unifying technical terms
7	11-9-2008	11-9-2010	Study Plans Committee	Faculty of Science and IT - Zarqa University, Jordan
8	16-9-2007	Present	Examinations Committee	Department of Mathematics, Zarqa University and Department of Basic Sciences, University of Dammam

9	16-9-2007	Present	Committee Membership	Council of Mathematics Department – Zarqa University and Council of Basic Sciences Department, University of Dammam
1 0	18-9-2011	15-6-2014	Committee Membership	College Website and e-learning" College of Engineering-University of Dammam
1	1-4-2015	11-3-2016	Committee Membership	International Symposium on Big Data and Cloud Computing Challenges (ISBCC 2016)" – VIT University Chennai Campus-Schools of Computing Sciences

### الاستشارات العلمية

#	من	الى	الجهة	وقت كامل ـ وقت جزئي
1	11-5-2014	18-5-2015	Zarqa University	Part-Time
2	1-5-2009	5-8-2010	Al-al Bayt University	Part-Time
3	11-1-2010	5-10-2010	Al-Quds Open University	Part-Time
4	10-10- 2018	present	University of Bahrain	Part-Time

# العمل التطوعي

#	من	ائی	نوع التطوع	الجهة
1	21-10- 2008	22-10-2008	New Day	Jordanian TV

# الكفاءات والمهارات الشخصية (الحاسب, تقنية المعلومات, التقنية .. الخ)

MATLAB	1
SPSS	2
SWP	3

# الجوائز ورسائل الشكر

#	Name of Award/Letter	Institution	Date
1	Distinguished Scientist in Applied Mathematics Award	Venus International Foundation (VIRA-2018)	11-08-2018
2	Outstanding Research Award (First Place)	University of Dammam / KSA	30-05-2016
3	Outstanding Teaching Award (Second Place)	University of Dammam / KSA	30-05-2016
4	Recognized Effort –Thankful Letter	Zarqa University / Jordan	30-04-2011
5	Recognized Effort –Thankful Letter	Zarqa University / Jordan	07-02-2010
6	Administrative and Recognized Effort -Thankful Letter	Zarqa University / Jordan	07-02-2010
7	Recognized Effort –Thankful Letter	Zarqa University / Jordan	02-11-2008
8	2 Bronze Medals Awards	University Putra Malaysia / Malaysia	2006
9	Silver Medal Award	University Putra Malaysia / Malaysia	2005

آخر تحدیث

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