PROFESSOR Dr. ZEYAD ABDEL AZIZ MAH'D AL-ZHOUR

ا.د. زياد عبد العزيز محمود الزهور

APPLIED MATHEMATICS / FRACTIONAL-ORDER DIFFERENTIAL SYSTEMS
DEPARTMENT OF BASIC ENGINEERING SCIENCES, COLLEGE OF ENGINEERING,
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY (IAU) (FORMERLY: UNIVERSITY OF DAMMAM)
P. O. BOX 1982, DAMMAM31441, SAUDI ARABIA

(Top 2% Scientist in the Worldwide in 2023-2024 by Stanford University and Elsevier global Ranking)
https://topresearcherslist.com/Home/Search?AuthFull=Al-Zhour

❖ **PERSONAL DATA**

- **NATIONALITY:** Jordanian
- **DATE OF BIRTH:** 30 November 1968
- **E-MAIL:** zalzhour@iau.edu.sa; zeyad1968@yahoo.com
- **OFFICE PHONE NO.:** +966133331684
- **MOBILE NO.:** +966557066731

❖ **SOCIAL MEDIA PROFILE LINKS**

Social Media Profile Links	
Google Scholar	https://scholar.google.com/citations?user=ffk5u8QAAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=14059483200
ID ORCID	http://orcid.org/0000-0002-8543-5497
Web of Science Researcher ID	http://www.researcherid.com/rid/A-5123-2015
Academia	https://iabfu.academia.edu/zalzhour
Publons (Clarivate Analytics)	https://publons.com/researcher/1671227/zeyad-al-zhour/ https://publons.com/researcher/2447232/zeyad-a-al-zhour/
Research Gate	https://www.researchgate.net/profile/Zeyad_Al-Zhour
Mendeley	https://www.mendeley.com/authors/14059483200/
LinkedIn	https://www.linkedin.com/in/zeyad-al-zhour-b1897341/?originalSubdomain=sa

❖ LANGUAGE PROFICIENCY

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Others			

❖ PERSONAL CHARACTERISTICS AND COMPUTER SKILLS

Personal Characteristics	Computer Skills
✓ Described as a responsible, hardworking, and ambitious person. ✓ Prefer to work in education and research fields, where my performance can be measured with some accuracy. ✓ Willing to learn and work fast, able to contribute to teamwork, manage to make do date on time, good communication skills and can work independently.	✓ Control Software: MATLAB, MATIMATICA, MAPLE. ✓ Windows Software: MS-Word, MS-Power point, MS-Excel and SWP50.

❖ PACADEMIC QUALIFICATIONS

Period / (Date)	Academic Degree	Place of Issue & Address	Details
May 2003- Jan. 2007 (16 /01/ 2007)	Ph. D	University Putra Malaysia (UPM) 43400, Serdang, Selangor, Malaysia.	❖ **Program:** Doctor of Philosophy in Science (Research & Course Work) ❖ **Major:** Applied Mathematics. ❖ **Specialization:** Matrix Differential Equations. ❖ **Cumulative Average:** 4 out of 4 (Excellent – First Honour).
Oct. 1994 - Oct.1997 (07 /10/ 1997)	MSc.	Al al-Bayat University, Mafraq, Jordan.	❖ **Program:** Master of Science (Research & Course Work) ❖ **Major:** Mathematics. ❖ **Specialization:** Matrix Analysis ❖ **Cumulative Average:** (Very Good).
Sep.1990-Sep.1994 (18 /09/ 1994)	BSc.	Mu'tah University, Al-Karak, Jordan	❖ **Program:** Bachelor of Science (Course Work). ❖ **Major:** Mathematics. ❖ **Cumulative Average:** 80. 11% (Very Good- First Honour).
Sep.1988-June1990 (15 /06/ 1990)	Diploma	Zarqa Private College	❖ **Program:** Diploma (Course Work with comprehensive Exams). ❖ **Major:** Mathematics (98% - Excellent -First Honour) ❖ **Minor:** Educational Qualifications (91 % -Excellent- First Honour).
	General		❖ Primary and intermediate School

1975-1987 (1987)	Certificate of Secondary Education	Beit Kahel Intermediate School, Tarqomya Secondary School, Palestine.	❖ Secondary School (82.1 % - Very good)

❖ PH.D, MASTER or FELLOWSHIP RESEARCH TITLE

PhD	Generalizations and Some Applications of Kronecker and Hadamard Products of Matrices
Master	Kronecker Products of Matrices and Some Applications
Fellowship	

❖ PROFESSIONAL RECORD

Job Rank	Place and Address of Work		Date
Full Professor	Imam Abdulrahman Bin Faisal University.	Department of Basic Engineering Sciences, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia	From: 30-10-2022 To: Present
Associate Professor	Imam Abdulrahman Bin Faisal University.	Department of Basic Engineering Sciences, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia	From: 05-4-2018 To: 30-10-2022
Assistant Professor	Imam Abdulrahman Bin Faisal University.	Department of Basic Sciences, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	From: 28-08-2010 To: 04-04-2018
Assistant Professor	Zarqa University	Department of Mathematics, Faculty of Science and Information Technology, Zarqa University, Zarqa, Jordan.	From: 16-9-2007 To: 11-9-2010
Teacher	Islamic Scientific College	Jabal Amman- P. O. Box 385, 11118 Amman, Jordan.	From: 5-10-1994 To: 12-8-2003

❖ ADMINISTRATIVE POSITIONS HELD

Administrative Position	Office	Date
Chairman	Department of Basic Engineering Sciences, College of Engineering, Imam Abdulrahman Bin Faisal University, Saudi Arabia.	From: 15-1-2016 To: 05-09-2011
Chairman	Department of Mathematics-Faculty of Science and Information Technology -Zarqa University, Jordan	From: 14-09-2008 To: 11-09-2010
Chairman of Organizing Committee	Third Conference on Mathematical Sciences, Zarqa University, Jordan	From: 15-09-2009 To: 11-09-2010
Coordinator of Organizing Committee	Second Conference on Mathematical Sciences, Zarqa University, Jordan	From: 01-10-2007 To: 21-10-2008
Chairman of Continuous Education Committee	College of Engineering, Imam Abdulrahman Bin Faisal University, Saudi Arabia.	From: 23-02-2021 To: Present

❖ **SCIENTIFIC ACHIEVEMENTS**

Published Refereed Scientific Research (In Chronological Order Beginning with the Most Recent)

PART (I): Refereed Journal Articles (2024-2025)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus	Web of Science (WoS)
								Cite Score & Quartile	Impact Factor & Quartile
1	Laplace Residual Power Series Solutions of the Fractional Modified KdV System with Physical Applications	*International Journal of Applied and Computational Mathematics*	Moa'ath N. Oqielat, Tareq Eriqat, **Zeyad Al-Zhour**,, Ahmad El-Ajou, and Zaid Odibat	2025	Yes	Vol. 11, No. 12 (**2025**): pp. 1–23 DOI: https://doi.org/10.1007/s40819-024-01805-6	2199-5796 / 2349-5103	2.9 Q2	2.1 Q1
2	*Multi-Order Fractional Dynamic Differential Systems via Abu-Shady-Kaabar Fractional Derivative with Some Electrical Circuits Applications*	*International Journal of Applied and Computational Mathematics*	Reem Al-braik, Najla Alarifi and **Zeyad Al-Zhour**	2025	Yes	Vol. xxx, No. xxx (**2025**): pp. xxx–xxx. DOI:	2199-5796 / 2349-5103	2.9 Q2	2.1 Q1
3	Analytical numerical solutions of fractional logistic growth model using Laplace residual power series method via Caputo fractional derivative	*Far east journal of Mathematics*	Rawan A. Abahussain, Dana M. Alsaleh and **Zeyad Al-Zhour**	2025	Yes	(Accepted) Vol. xxx, No. xxx (**2025**): pp. xxx–xxx. DOI:	0972-0871 / 2584-1246	- Q4	0.56 Q4
4	A new approach in handling one-dimensional time-fractional Schrodinger equations	*AIMS Mathematics*	Ahamd El-Ajou, Rania Saadeh, Moawaih Akhu Dunia, Ahmad Qazza and **Zeyad Al-Zhour**	2024	Yes	Vol. 9, No. 5 (**2024**): pp. 10536–10560. DOI: https://www.aimspress.com/article/doi/10.3934/math.2024515	2473-6988	1.60 Q1	2.739 Q1

No	Research Title	Journal Title	Authors	Publication Date	Scopus/WOS	Volume, Issue & Pages or DOI	Journal ISSN/eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
5	Analytical Approximate solutions of Caputo Fractional KdV-Burgers Equations Using Laplace Residual Power Series Technique	*Journal of Applied Mathematics-Wiley*	Aliaa Burqan, Mona Khandaqji, **Zeyad Al-Zhour**, Ahmad El-Ajou and Tasneem Abrahamsen	2024	Yes	Vol. 2024, Article ID: 7835548 (**2024**): 19 pages DOI: https://doi.org/10.1155/2024/7835548	1687-0042 / 1110-757X	1.51 Q2	1.505 Q2
6	Exact solutions of symmetric fractional Stein, Lyapunov and Sylvester matrix differential equations: A new technique, a brief comparison and illustrative examples	*Computational and Applied Mathematics*	Lakhlifa Sadek and **Zeyad Al-Zhour**	2024	Yes	(Waiting Acceptance) Vol. xxx, No. xxx (**2024**): pp. xxx–xxx. DOI:	2238-3603 / 1807-0302	4.50 Q1	2.6 Q1

PART (II): Refereed Journal Articles (2023)

No	Research Title	Journal Title	Authors	Publication Date	Scopus/WOS	Volume, Issue & Pages or DOI	Journal ISSN/eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
7	New efficient and accurate bounds for zeros of a polynomial based on similarity of companion complex matrices	*FILOMAT*	Aliaa Burqan, Ahmad Alsawaftah and **Zeyad Al-Zhour**	2023	Yes	Vol. 37, No. 9 (**2023**): pp. 2961–2968. DOI: https://doi.org/10.2298/FIL2309961B	0354-5180	1.00 Q2	0.844 Q2
8	Analytical Solutions to the coupled fractional neutron diffusion equations with delayed neutrons system using Laplace transform method	*AIMS Mathematics*	Aliaa Burqan, Mohammed Shqair, Ahmad El-Ajou, Sherif M. E. Ismaeel and **Zeyad Al-Zhour**	2023	Yes	Vol. 8, Issue 8 (**2023**): pp. 19297–19312. DOI: 10.3934/math.2023984	2473-6988	1.60 Q1	2.739 Q1

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
9	Revisited Fisher's equation and logistic system model: A new fractional approach and some modifications	*International Journal of Dynamics and Control*	Tareq Eriqat, Moa'ath N. Oqielat, **Zeyad Al-Zhour**, Ahmad El-Ajou and Ahmad S. Bataineh	2023	Yes	Vol. 11, No. 2 (**2023**), pp. 555–563 DOI: https://doi.org/10.1007/s40435-022-01020-5	2195-268X / 2195-2698	3.18 Q2	2.016 Q2
10	Construction of fractional series solutions to nonlinear fractional reaction–diffusion for bacteria growth model via Laplace residual power series method	*International Journal of Dynamics and Control*	Moa'ath N. Oqielat, Tareq Eriqat, **Zeyad Al-Zhour**, Osama Oqilat, Ahmad El-Ajou and Ishak Hashim	2023	Yes	Vol. 11, No. 2 (**2023**), pp. 520–527 DOI: https://doi.org/10.1007/s40435-022-01001-8	2195-268X / 2195-2698	3.18 Q2	2.016 Q2
11	Adaptation of reproducing kernel method in solving Atangana–Baleanu fractional Bratu model	*International Journal of Dynamics and Control*	Mohammed Al-Smadi, Shaher Momani, Nadir Djeddi, Ahmad El-Ajou and **Zeyad Al-Zhour**	2023	Yes	Vol. 11, No. 1 (**2023**), pp. 136-148 DOI: https://doi.org/10.1007/s40435-022-00961-1	2195-268X / 2195-2698	3.18 Q2	2.016 Q2

PART (III): Refereed Journal Articles (2022)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
12	Controllability and observability behaviors of a non-homogeneous conformable fractional dynamical system compatible with some electrical applications	*Alexandria Engineering Journal*	**Zeyad Al-Zhour**	2022	Yes	Vol. 61, Issue 2 (**2022**): pp. 1055–1067. DOI: https://doi.org/10.1016/j.aej.2021.07.018	1110-0168 / 2090-2670	8.30 Q1	6.626 Q1

13	A New Approach to Solving Fuzzy Quadratic Riccati Differential Equations	*International Journal of Fuzzy Logic and Intelligent Systems*	Moa'ath N. Oqielat, Ahmad El-Ajou, **Zeyad Al-Zhour**, Tareq Eriqat, and Mohammed Al-Smadi	2022	Yes	Vol. 22, No. 1 (**2022**), pp. 23-47 DOI: http://doi.org/10.5391/IJFIS.2022.22.1.23	1598-2645 / 2093-744X	3.1 Q1	1.463 Q1
14	Numerical Solutions of Time-Fractional Nonlinear Water Wave Partial Differential Equation Via Caputo Fractional Derivative: An Efficient Analytical Method and Some Applications	*Applied and Computational Mathematics-Springer*	Moa'ath N. Oqielat, Tareq Eriqat , **Zeyad Al-Zhour** , Ahmad El-Ajou and Shaher Momani	2022	Yes	Vol. 21, No. 2 (**2022**), pp. 207-222. DOI: 10.30546/1683-6154.21.2.2022.207	1683-3511 / 1683-6154	6.4 Q1	4.771 Q1
15	Exact and numerical solutions of higher-order fractional partial differential equations: A new analytical method and some applications	*Pramana- Journal of Physics-Springer*	Tareq Eriqat, Moa'ath N. Oqielat, **Zeyad Al-Zhour**, Ghazi S. Khammash, Ahmad El-Ajou and Hussam Alrabaiah	2022	Yes	Vol. 96, No. 4 (**2022**): 207. DOI: https://doi.org/10.1007/s12043-022-02446-4	03044289 / 09737111	3.4 Q2	2.699 Q2
16	Approximate solutions of fuzzy fractional population dynamics model	*European Physical Journal Plus*	Moa'ath N. Oqielat, Tareq Eriqat, Osama Oqilat, Zaid Odibat **Zeyad Al-Zhour** , and Ishak Hashim	2022	Yes	Vol. 137 (**2022**): 982. DOI: https://doi.org/10.1140/epjp/s13360-022-03188-3	2190-5444	4.13 Q1	3.758 Q1
17	Effective Approach to Construct Series Solutions for Uncertain Fractional Differential Equations	*Fuzzy Information and Engineering-Taylor and Francis*	**Zeyad Al-Zhour**, Ahmad El-Ajou, Moa'ath N. Oqielat, Osama N. Oqily, Shadi Salem and Mousa Imran	2022	Yes	Vo. 14, No. 2, (**2022**), pp. 182-211. DOI: https://doi.org/10.1080/16168658.2022.2119041	1616-8658 / 16168666	1.00 Q1	1.00 Q1
18	Analytical Solutions of the Nonlinear Time-Fractional Coupled Boussinesq-Burger Equations Using Laplace Residual Power Series Technique	*Fractal and Fractional*	Aref Sarhan, Aliaa Burqan, Rania Saadeh and **Zeyad Al-Zhour**	2022	Yes	Vol. 6 (**2022**): 631 DOI: https://doi.org/10.3390/fractalfract6110631	2504-3110	2.8 Q1	3.577 Q1

PART (IV): Refereed Journal Articles (2021)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
19	Fundamental fractional exponential matrix: New computational formulae and electrical applications	*AEÜ -International Journal of Electronics and Communications (AEÜ)*	**Zeyad Al-Zhour**	2021	Yes	Vol. 129 (**2021**): 153557. DOI: https://doi.org/10.1016/j.aeue.2020.153557	1434-8411 / 1618-0399	6.5 Q2	3.183 Q2
20	A Vector Series Solution for a Class of Hyperbolic System of Caputo Time-Fractional Partial Differential Equations with Variable Coefficients	*Frontiers in Physics*	Ahmad El-Ajou and **Zeyad Al-Zhour**	2021	Yes	Vol. 9 (**2021**):525250 DOI: 10.3389/fphy.2021.525250	2296-424X	3.1 Q2	3.56 Q2
21	New Theoretical Results and Applications on Conformable Fractional Natural Transform	*Ain Shams Engineering Journal*	**Zeyad Al-Zhour**, Nouf Al-Mutairi, Fatimah Alrawajeh and Raed Alkhasawneh	2021	Yes	Vol. 21, No. 1, (**2021**), pp. 927-933. DOI: https://doi.org/10.1016/j.asej.2020.07.006	2090-4479 / 2090-4495	6.9 Q1	4.790 Q1
22	Numerical approach in the Hilbert space to solve a fuzzy Atangana-Baleanu fractional hybrid system	*Chaos, Solitons and Fractals*	Shatha Hasan, Mohammed Al-Smadi, Ahmad El-Ajou, Shaher Momani, Samir Hadid and **Zeyad Al-Zhour**	2021	Yes	Vol. 143 (**2021**): 110506. DOI: https://doi.org/10.1016/j.chaos.2020.110506	0960-0779 / 1873-2887	7.2 Q1	5.944 Q1
23	A New Analysis of Fractional-Order Equal-Width Equations via Novel Techniques	*Symmetry*	Muhammad Naeem, Ahmed Zidan, Kamsing Nonlaopon, Muhammad Syam, **Zeyad Al-Zhour** and Rasool Shah	2021	Yes	Vol. 13, Issue 5 (**2021**): 886, 20 Pages DOI: https://doi.org/10.3390/sym13050886	2073-8994	3.11 Q2	2.713 Q2

No	Research Title	Journal Title	Authors		Yes/No	Volume, Issue & Pages or DOI	Journal ISSN/eISSN	Scopus Cite Score & Quartile	WoS Impact Factor & Quartile
24	A New Approach for Solving Fuzzy Quadratic Riccati Differential Equations	*International Journal of Fuzzy Logic and Intelligent System*	Moa'ath Oqielat, Ahmad El-Ajou, **Zeyad Al-Zhour** , Tareq Eriqat, and Mohammed Al-Smadi.	2022	Yes	Vol. 22, No. 1 (**2022**): 23 Pages DOI: http://doi.org/10.5391/IJFIS.2022.22.1.23	1598-2645 / 2093-744X	1.46 Q3	1.463 Q3
25	Adaptation of reproducing kernel method in solving Atangana–Baleanu fractional Bratu model	*International Journal of Dynamics and Control*	Mohammed Al-Smadi, Shaher Momani, Nadir Djeddi, Ahmad El-Ajou and **Zeyad Al-Zhour**	2022	Yes	https://doi.org/10.1007/s40435-022-00961-1	2195-268X / 2195-2698	Q2	2.016 Q2
26	Impact of Joule heating and viscous dissipation on magnetohydrodynamics boundary layer flow of viscous nanofluid subject to the stretched surface	*Proceedings of the Institutions of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*	M. Riaz Khana, Awatef Abidib, Jamel Madioulie, Kamel Guedrig, A.M. Al-Bugamii, T.H. Alarabij, **Zeyad Al-Zhour** and Ahmed M. Galal	2021	Yes	IMechE 2021 (2021): pp. 1-8. DOI: 10.1177/09544089211064120	0954-4089 / 2041-3009	----- Q2	1.620 Q2

PART (V): Refereed Journal Articles (2020)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
27	A Class of Linear Non-Homogenous Higher Order Matrix Fractional Differential Equations: Analytical Solutions and New Technique	*Fractional Calculus and Applied Analysis*	Ahmad El-Ajou, Moa'ath Oqielat, **Zeyad Al-Zhour** and Shaher Momani	2020	Yes	Vol. 23, No. 2, (**2020**), pp. 356-377. DOI: https://doi.org/10.1515/fca-2020-0017	1311-0454 / 1314-2224	3.4 Q1	3.126 Q1

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
28	Series solutions for nonlinear time-fractional Schrödinger equations: Comparisons between conformable and Caputo derivatives	*Alexandria Engineering Journal*	Mua'ath Oqielat, Ahmad El-Ajou, **Zeyad Al-Zhour,** Raed Alkhasawneh and Hussam Alrabaiah	2020	Yes	Vol. 59, Issue 4 (**2020**), pp. 2101-2114. DOI: https://doi.org/10.1016/j.aej.2020.01.023	1110-0168 / 2090-2670	8.30 Q1	6.626 Q1
29	A New Attractive Analytic Approach for Solutions of Linear and Nonlinear Neutral Fractional Pantograph Equations	*Chaos, Solitons and Fractals*	Tareq Eriqat, Ahmad El-Ajou, Moa'ath Oqielat, **Zeyad Al-Zhour** and Shaher Momani	2020	Yes	Vol. 138, (**2020**): 109957 DOI: https://doi.org/10.1016/j.chaos.2020.109957	0960-0779 / 1873-2887	7.2 Q1	5.944 Q1
30	New Theoretical Results and A comparative study for fractional chemical kinetics and carbon dioxide CO_2 absorbed into phenyl glycidyl ether problems	*AIMS Mathematics*	Ranbir Kumar, Sunil Kumar, Jagdev Singh and **Zeyad Al-Zhour**	2020	Yes	Vol. 5, No. 4, (**2020**), pp. 3201-3222 DOI: 10.3934/math.2020206	2473-6988	1.600 Q2	2.739 Q1

PART (VI): Refereed Journal Articles (2019)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
31	Series Solutions for the Laguerre and Lane-Emden Fractional Differential Equations in the Sense of Conformable Fractional Derivative	*Alexandria Engineering Journal*	**Zeyad Al-Zhour**, Nouf Al-Mutairi, Fatimah Alrawajeh and Raed Alkhasawneh	2019	Yes	Vol. 58, Issue 4, (**2019**), pp. 1413-1420. DOI: https://doi.org/10.1016/j.aej.2019.11.012	1110-0168 / 2090-2670	8.30 Q1	6.626 Q1
32	A computational method to price with transaction costs under the nonlinear Black-Scholes model	*Chaos, Solitons and Fractals*	**Zeyad Al-Zhour**, Mahdiar Barfeie, Fazlollah Soleymani and Emran Tohidi	2019	Yes	Vol. 127 (**2019**), pp. 291-301. Doi: https://doi.org/10.1016/j.chaos.2019.06.033	0960-0779 / 1873-2887	7.2 Q1	5.944 Q1

33	Analytical Numerical Solutions of the Fractional Multi-Pantograph System: Two Attractive Methods and Comparisons	*Results in Physics*	Ahmad El-Ajou, Mua'ath Oqielat, **Zeyad Al-Zhour** and Shaher Momani	2019	Yes	Vol. 14 (**2019**): 102500. DOI: https://doi.org/10.1016/j.rinp.2019.102500	2211-3797	7.1 Q2	4.476 Q2
34	Series Solutions of Nonlinear Conformable Fractional KdV-Burgers Equation with Some Applications	*European Physical Journal Plus*	Ahmad El-Ajou, **Zeyad Al-Zhour** , Mua'ath Oqielat, Shaher Momani and Tasawar Hayat	2019	Yes	Vol. 134 (**2019**): Article No.: 402. DOI: https://link.springer.com/article/10.1140/epjp/i2019-12731-x	2190-5444	4.13 Q2	3.758 Q2
35	Solitary solutions for time-fractional nonlinear dispersive PDEs in the sense of conformable fractional derivative	*Chaos*	Ahmad El-Ajou, Moa'ath Oqielat, **Zeyad Al-Zhour**, Sunil Kumar and Shaher Momani	2019	Yes	Vol. 29 (**2019**): 093102. DOI: https://doi.org/10.1063/1.5100234	1054-1500 / 1089-7682	2.85 Q1	3.642 Q1
36	Some New Linear Representations of Matrix Quaternions with Some Applications	*Journal of King Saud University-Science*	**Zeyad Al-Zhour**	2019	Yes	Vol. 31, Issue 1 (**2019**), pp. 42-47. Doi: https://doi.org/10.1016/j.jksus.2017.05.017	1018-3604	3.8 Q1	4.011 Q1
37	New Results on conformable fractional Sumudu transform: Theories and Applications	*International Journal of Analysis and Applications*	**Zeyad Al-Zhour**, Fatimah Alrawajeh Nouf Al-Mutairi and Raed Alkhasawneh	2019	No	Vol. 17, No. 6 (**2019**), pp. 1019-1033 DOI: https://doi.org/10.28924/2291-8639-17-2019-1019	2291-8639	0.35	0.9 Emerging Sources Citation Index

PART (VII): Refereed Journal Articles (2015-2018)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
38	Notes and Counterexamples on Positive (Semi) Definite Property of Some Matrix Products	*Ain Shams Engineering Journal*	**Zeyad Al-Zhour**	2018	Yes	Vol. 9, Issue 4 (**2018**), pp. 3217-3220. DOI: https://doi.org/10.1016/j.asej.2017.11.008	2090-4479 / 2090-4495	6.90 Q1	4.790 Q1
39	The General Solutions of Singular and Non-Singular Matrix Fractional Time-Varying Descriptor Systems with Constant Coefficients Matrices in Caputo Sense	*Alexandria Engineering Journal*	**Zeyad Al-Zhour**,	2016	Yes	Vol. 55, Issue 2 (**2016**), pp. 1675-1681. DOI: https://doi.org/10.1016/j.aej.2016.02.024	1110-0168 / 2090-2670	8.30 Q1	6.626 Q1
40	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*	Zayed Al-Zuhiri, **Zeyad Al-Zhour** and Khaled Jaber	2016	Yes	Vol. 4, No. 2 (**2016**), pp. 432-442. DOI: http://dx.doi.org/10.4236/jamp.2016.42049	0044-2275 / 1420-9039	-----	0.63 -----
41	New Techniques for Solving Some Matrix and Matrix Differential Equations	*Ain Shams Engineering Journal*	**Zeyad Al-Zhour**	2015	Yes	Vol. 6, Issue 1, (**2015**), pp. 347-354. DOI: https://doi.org/10.1016/j.asej.2014.08.009	2090-4479 / 2090-4495	6.90 Q1	4.790 Q1
42	Extension and Generalization Properties of the Weighted Minkowski Inverse in a Minkowski Space for an Arbitrary Matrix	*Computers and Mathematics with Applications*	**Zeyad Al-Zhour**	2015	Yes	Vol. 70, Issue 5, (**2015**), pp. 954-961. DOI: https://doi.org/10.1016/j.camwa.2015.06.015	0898-1221 / 1873-7668	3.66 Q1	3.658 Q1

جامعة الإمام عبدالرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

PART (VIII): Refereed Journal Articles (2011-2014)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
43	Several New Inequalities on Operator Means of Non-Negative Maps and Khatri-Rao Products of Positive Definite Matrices	*Alexandria Engineering Journal*	**Zeyad Al-Zhour**	2014	Yes	Vol. 26, Issue 1 (**2014**), pp. 21-27. DOI: https://doi.org/10.1016/j.jksus.2013.05.002	1110-0168 / 2090-2670	8.30 Q1	6.626 Q1
44	The General (Vector) Solutions of Such Linear (Coupled) Matrix Fractional Differential Equations by using Kronecker Structures	*Applied Mathematics and Computation*	**Zeyad Al-Zhour**,	2014	Yes	Vol. 232, (**2014**), pp. 498-510. DOI: https://doi.org/10.1016/j.amc.2014.01.079	0096-3003 / 1873-5649	6.8 Q1	4.091 Q1
45	Multiple Solutions of Nonlinear Boundary Value Problems of Fractional Order: New Analytic Iterative Technique	*Entropy*	Omar Abu Arqub, Ahmad El-Ajou, **Zeyad Al-Zhour** and Shaher Momani	2014	Yes	Vol. 16, No. 1 (**2014**), pp. 471-493. DOI: http://www.mdpi.com/1099-4300/16/1/471	1099-4300	3.7 Q2	2.419 Q2
46	New Results on Fractional Power Series: Theories and Applications	*Entropy*	Ahmad El-Ajou, Omar Abu Arqu, **Zeyad Al-Zhour** and Shahir Momani	2013	Yes	Vol. 15, No. 12, (**2013**), pp. 5305-5323. DOI: http://www.mdpi.com/1099-4300/15/12/5305	1099-4300	3.7 Q2	2.419 Q2
47	Some New Algebraic and Topological Properties of the Minkowski Inverse in the Minkowski Space	*The Scientific World Journal*	Hanifa Zekraoui, **Zeyad Al-Zhour** and Cenap Özel	2013	Yes	Vol. 2013, (**2013**), Article ID 765732, 6 pages. DOI: http://dx.doi.org/10.1155	2356-6140 / 1537-744X	2.4 Q2	2.107 Q2

#	Title	Journal	Authors	Year		Details	ISSN		
						/2013/765732			
48	Efficient Solutions of Coupled Matrix and Matrix Differential Equations	*Intelligent Control and Automation*	**Zeyad Al-Zhour**	2012	No	Vol. 3, No. 2, (**2012**), pp. 176-187. Doi: http://www.scirp.org/journal/PaperInformation.aspx?PaperID=19244	2153-0653 / 2153-0661	-----	0.81
49	New Holder-Types Inequalities for the Tracy Singh and Khatri-Rao Products of Positive Matrices	*International Journal of Computer Engineering Research*	**Zeyad Al-Zhour**	2012	No	Vol. 3, No. 3, (**2012**), pp. 50-54. Article No.: 7C6247F865 DOI: 10.5897/IJCER12.013	2141-6494	----	0.565 Q2
50	The Total Number of Squares and Rectangles are there in Rectangle (Square) Boards	*International Journal of Open Problems in Computer Sciences and Mathematics*	**Zeyad Al-Zhour**	2012	Yes	Vol. 5, No. 3 (**2012**), pp.152-159. Website: https://www.researchgate.net/publication/233955119	1998-6262	----	0.756
51	The Approximation Solutions of Coupled Matrix Riccati Convolution Differential Equations	*International Journal of Mathematical Archive*	**Zeyad Al-Zhour** and Mutaz Al-Sabbagh	2011	Yes	Vol. 2, No. 4, (**2011**), pp. 452-464. DOI: https://www.academia.edu/3626445/	2229-5046	----	ICV:5.09
52	On Convergent Infinite Products and Some Generalized Inverses of Matrix Sequences	*Abstract and Applied Analysis*	Adem Kilicman and **Zeyad Al-Zhour**	2011	Yes	Vol. 2011 (**2011**), Article ID 536935, 20 pages. DOI:http://dx.doi.org/10.1155/2011/536935	1085-3375 / 1687-0409	0.77 Q4	0.475 Q4

PART (XI): Refereed Journal Articles (2007-2010)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
53	Note on the Numerical Solutions of the General Matrix Convolution Equations by Using the Iterative Methods and Box Convolution Products	*Abstract and Applied Analysis*	Adem Kiliçman and **Zeyad Al-Zhour**	2010	Yes	Vol. 2010 (**2010**), Article ID 106192, 16 Pages. DOI: http://dx.doi.org/10.1155/2010/106192	1085-3375 / 1687-0409	0.77 Q4	0.475 Q4
54	On the Connection between Kronecker and Hadamard Convolution Products of Matrices and Some Applications	*Journal of Inequalities and Applications*	Adem Kiliçman and **Zeyad Al-Zhour**	2009	Yes	Vol. 2009 (**2009**), Article ID 736243, 10 pages. DOI: https://link.springer.com/article/10.1155/2009/736243	1029-242X	3.454 Q1	2.491 Q1
55	Numerical Solutions of the General Matrix Convolution Equations Based on the Iterative Methods and Box Convolution Product	*Far East Journal of Mathematical Sciences*	**Zeyad Al-Zhour**	2009	Yes	Vol. 32, Issue 2, (**2009**), pp. 199-215. DOI: http://www.pphmj.com/journals/articles/476.htm	0972-0871	----- Q4	1.85 Q4
56	The Representation and Approximation for the Weighted Minkowski Inverse in Minkowski Space	*Mathematical and Computer Modelling*	Adem Kiliçman and **Zeyad Al-Zhour**	2008	Yes	Vol. 37, Issues 3-4, (**2008**), pp. 363-371. DOI: https://doi.org/10.1016/j.mcm.2007.03.031	1387-3954 / 1744-5051	3.654 Q2	2.15 Q2
57	A Computationally- Efficient Solutions of Coupled Matrix Differential Equations for Diagonal Unknown Matrices	*Journal of Mathematical Sciences: Advances and Applications*	**Zeyad Al-Zhour**	2008	Yes	Vol. 1, No. 2, (**2008**), pp. 373-387. DOI: http://www.scientificadvances.co.in/artical/1/14	0974-5750	---- Q4	1.462 Q4

58	Mathematical Properties of DNA Structure in 3-Dimensional Space	*International Journal of Open Problems in Computer Science and Mathematics*	**Zeyad Al-Zhour**, Ameen Aqel and Abdalah Ibrahim	2008	Yes	Vol. 1, No.2, (**2008**), pp. 214-221. Website: https://www.researchgate.net/ publication/25129353	1998-6262	-----	0.756
59	The General Representations for the Weighted Drazin Inverse with Applications	*East-West Journal of Mathematics*	**Zeyad Al-Zhour** and Adem Kilicman	2008	No	*Contribution in General Algebra II*, ICMDA, (**2008**), pp. 205-216. http://eastwestmath.org/index.php/ewm	0125-2526 / 1513-489X	----	----
60	Vector Least-Squares Solutions of Coupled Singular Matrix Equations	*Journal of Computational and Applied Mathematics*	Adem Kiliçman and **Zeyad Al-Zhour**	2007	Yes	Vol. 206, Issue 2, (**2007**), pp. 1051-1069 DOI: https://doi.org/10.1016/j.cam.2006.09.009	0377-0427 / 1879-1778	4.5 Q2	2.621 Q2
61	Kronecker Operational Matrices for Fractional Calculus and Some Applications	*Applied Mathematics and Computation*	Adem Kiliçman and **Zeyad Al-Zhour**	2007	Yes	Vol. 187, Issue 1, (**2007**), pp. 250-265. DOI: https://doi.org/10.1016/j.amc.2006.08.122	0096-3003 / 1873-5649	6.8 Q1	4.091 Q1
61	Iterative Solutions of Coupled Matrix Convolution Equations	*Soochow Journal of Mathematics*	Adem Kiliçman and **Zeyad Al-Zhour**	2007	Yes	Vol. 33, No. 1 (**2007**), pp. 167-180. DOI: http://mathlab.math.scu.edu.tw/mp/scu/00view.asp?eAutoID=88	0250-3255	-----	0.75

62	Iterative Solutions of Coupled Matrix Convolution Equations	*Soochow Journal of Mathematics*	Adem Kiliçman and **Zeyad Al-Zhour**	2007	No	Vol. 33, No. 1 (**2007**), pp. 167-180. DOI: http://mathlab.math.scu.edu.tw/mp/scu/00view.asp?eAutoID=88	0250-3255	-----	0.23
63	Some Topics on Weighted Generalized Inverse and Kronecker Product of Matrices	*Malaysian Journal of Mathematical Sciences*	**Zeyad Al-Zhour** and Adem Kilicman	2007	Yes	Vol. 1, No. 1, (**2007**), pp. 109-122. DOI: https://einspem.upm.edu.my/journal/volume1.1.php	1823-8343	------ Q4	0.632 Q4
64	New Representations for Weighted Drazin Inverse of Matrices	*International Journal of Mathematical Analysis*	**Zeyad Al-Zhour** and Adem Kilicman	2007	Yes	Vol. 1, No. 15, (**2007**), pp. 697-708. DOI: http://www.m-hikari.com/ijma/ijma-password-2007/ijma-password13-16-2007/index.html	1314-7579 / 1312-8876	----- Q4	1.02 Q4
65	Some New Connections between Matrix Products for Partitioned and Non-Partitioned Matrices	*Computers and Mathematics with Applications*	**Zeyad Al-Zhour** and Adem Kilicman	2007	Yes	Vol. 54, Issue 6, (2007), pp. 763-784. DOI: https://doi.org/10.1016/j.camwa.2006.12.045	0898-1221 / 1873-7668	5.8 Q1	3.476 Q1

PART (X): Refereed Journal Articles (2005-2006)

No	Research Title	Journal Title	Authors	Publication Date	Scopus /WOS	Volume, Issue & Pages or DOI	Journal ISSN/ eISSN	Scopus Cite Score & Quartile	Web of Science (WoS) Impact Factor & Quartile
66	Matrix Equalities and Inequalities Involving Khatri-Rao and Tracy-Singh Sums	*Journal of Inequalities in Pure and Applied Mathematics*	**Zeyad Al-Zhour** and Adem Kilicman	2006	Yes	Vol.7, Issue 1, (**2006**), Article 34, pp. 496-513. DOI: https://www.emis.de/journals/JIPAM/article618.html?sid=618	1443-5756	----- Q2	2.491 Q2
67	Extensions and Generalization Inequalities Involving the Khatri-Rao Product of Several Positive Matrices	*Journal of Inequalities and Applications*	**Zeyad Al-Zhour** and Adem Kilicman	2006	Yes	Vol. 2006, (**2006**), Article ID 80878, 21 pages. DOI: https://doi.org/10.1155/JIA/2006/80878	1029-242X	3.454 Q1	2.491 Q1
68	Improvements on Geometric Means Related to the Tracy-Singh Products of Positive Matrices	MATEMATIKA	Adem Kiliçman and **Zeyad Al-Zhour**	2005	Yes	Vol. 21, No. 2 (**2005**), pp. 49-65. Website: https://matematika.utm.my/index.php/matematika	0127-8274 / 0127-9602	0.86	0.86 Emerging Sources Citation Index
69	New Algebraic Method for Solving the Axial N- Index Transportation Problem Based on the Kronecker Product	MATEMATIKA	**Zeyad Al-Zhour** and Adem Kilicman	2005	Yes	Vol. 21, No. 2 (**2005**), pp. 113-123. Website: https://matematika.utm.my/index.php/matematika	0127-8274 / 0127-9602	0.86	0.86 Emerging Sources Citation Index
70	The General Common Exact Solutions of coupled Linear Matrix and Matrix Differential Equations	*Journal of Analysis and Computation*	Adem Kiliçman and **Zeyad Al-Zhour**	2005	No	Vol. 1, No.1, (**2005**), pp. 15-29. Website: http://www.ijaconline.com	0973-2861	-----	IJAS IF: 7.113 Q1

PART (XI): Refereed Conference Proceedings Articles

No	Research Title	Conference Title	Authors	Date and venue
71	Generalizations of Ando's Geometric Mean on Positive Matrices and Some Related Inequalities	The Third Conference on Mathematical Sciences (CMS'2011)	**Zeyad Al-Zhour**	27-29 April 2011 Zarqa University, Jordan
72	A Note on the Solution of the General Linear Matrix Differential Equations	International Conference on "*Computational Methods and Function Theory (CMFT 2009)*"	**Zeyad Al-Zhour**	08-12 June 2009. Bilkent University, Turkey
73	The General Representations for the Weighted Drazin Inverse with Applications	International Conference on "Discrete Mathematics and Applications (ICDMA 2008)". Contributions in General Algebra II, ICDMA 2008-	**Zeyad Al-Zhour** and Adem Kilicman	5-7 March 2008 University of the Thai Chamber of Commerce, Bangkok, Thailand
74	The Riemann-Liouville Fractional Integral of Matrices with Applications	International Symposium on "Geometric Function Theory & Applications (GFTA 2007)"	**Zeyad Al-Zhour** and Adem Kilicman	22-24 August 2007 University Putra Malaysia, Selangor, Malaysia

PART (XII): Current Scientific Research

No.	Name of Investigator(s)	Research Title
1	**Zeyad Al-Zhour**	Representations and Applications of Dual and Hyperbolic Matrices Reachability and constructability of fractional dynamic systems with some electrical applications
2	**Zeyad Al-Zhour**, Fatimah Al-Rawajeh and Nouf Al-Mutairi	Fractional Kamal Transforms and Fractional Elzaki Transform with some applications.
3	Mohamad Kafini and **Zeyad Al-Zhour**	**Book Translation** **Title:** The Analysis of Fractional Differential Equations **Author Name:** Kia Diethelm **Publisher:** Springer Heidelberg Dordrecht London New York **Publication Year:** 2010

4	**Zeyad Al-Zhour** and Naeem Al-Koumi	Nonlinear fractional physical problems
5	**Zeyad Al-Zhour** , Rawan Abahussian and Dana AlSaleh	Fractional biological models
6	**Zeyad Al-Zhour** , Reem Albraik and Najla Aluriefi	Fractional Dynamical Systems

PART (XIII): Achieved and Current Research Projects

No	Name of Investigator(s)	Research Title	(Supported by)	Report Date
1	**Zeyad Al-Zhour** and Nawal Al-Malki	The General Vector Solutions of Such Systems of Matrix Fractional Differential Equations	Imam Abdulrahman Bin Faisal University	From: 06-05- 2013 To: 06-08-2014
2	Mutaz Al-Sabbagh and **Zeyad Al-Zhour**	Computational Algorithm for the K—TH Chow Ring of A T-Variety and Some Applications	Imam Abdulrahman Bin Faisal University	From: 06-05- 2013 To: 06-05-2014
3	**Zeyad Al-Zhour** and Mutaz Al-Sabbagh	Tracy-Singh and Khatri- Rao Products of Matrices and Some Applications	Imam Abdulrahman Bin Faisal University	From: 01-02- 2012 To: 01-12- 2012
4	**Zeyad Al-Zhour** and Mutaz Al-Sabbagh	Convolution Products of Matrices and Some Applications	Imam Abdulrahman Bin Faisal University	From: 15-01- 2011 To 15-09- 2011

PART (XIV): Contribution to Scientific Conferences, Symposia and Workshops

No.	Conference (Workshop) Title	Place and Date of the Conference	Extent of Contribution
1	الملتقى العلمي السنوي الثاني لكلية العلوم	مركز البحوث العلمية الاساسية والتطبيقية- كلية العلوم – جامعة الامام عبد الرحمن بن فيصل- 9-13 مايو 2024.	مشاركة في ملصق علمي عدد 2
2	الملتقى العلمي السنوي الاول لكلية العلوم	مركز البحوث العلمية الاساسية والتطبيقية- كلية العلوم – جامعة الامام عبد الرحمن بن فيصل- 4-7 يونيو 2023	مشاركة في ملصق علمي
3	The 8th International Arab Conference on Mathematics and Computation (IACMC-2023)	Department of Mathematics, Zarqa University, 10th -12th May 2023- Jordan	Participant- Certificate of Reviewing
4	1st "Annual Scientific Forum of Science College" (ASFCS-2023)	College of Science- Imam Abdulrahman Bin Faisal University, May 31-June 5, 2023, Dammam- Saudi Arabia.	Participant- Certificate of Appreciation
5	International Conference on Advances in Mathematics and Computing (ICAMC 2020)	Department of Mathematics, Veer Surendra Sai University of Technology: BURLA, 7th -8th February 2020- India.	Keynote Speaker
6	The 7th International Arab Conference on	Department of Mathematics, Zarqa University, 11-13 May 2022, Zarqa, Jordan	Participant- Certificate

	Mathematics and Computations		of Appreciation
7	Effective Strategies for Team Based Learning	Deanship of Academic Developments, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 10th November 2021.	Attendance
8	Using Acting Research in Teaching and Assessment	Deanship of Academic Developments, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 9th November 2021.	Attendance
9	ادارة صفية (مفتاح النجاح)	Deanship of Academic Developments, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 15th November 2021.	Attendance
10	University Teaching and Learning Exhibition	Deanship of Academic Developments, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 10th November 2021.	Attendance
11	رفع اداء كلية الهندسة وانجاز المتطلبات على الوجه الاكمل	College of Engineering, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 14th May 2020.	Participant- Certificate of Appreciation
12	Valuable Research collaboration and Contributions	Al-Balqa Applied University, Salt, Jordan, 1st November 2020.	Participant- Certificate of Appreciation
13	Reviewer Recognition	IEEE Access, 2020.	Participant- Certificate of Appreciation
14	The Pursuit of Excellence in Mentoring in Higher Education	Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 6th November 2018.	Attendance
15	Risk Management Planning in Higher Education	Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 21st March 2017.	Attendance
16	3rd International Symposium on Big Data and Cloud Computing Challenges (ISBCC' 16)	VIT University, Chennai Campus, India, 10-11 March 2016.	Program Committee
17	ملتقى ومعرض السلامة المرورية الثالث – الشباب والسلامة المرورية	Imam Abdulrahman Bin Faisal University, Dammam, Shiraton Hotel, Saudi Arabia, 23th -25th November 2015.	Attendance
18	Motivating Students and Learning	Dean of Education Development, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 17th November, 2015	Attendance
19	Situation Analysis and Orientation	Imam Abdulrahman Bin Faisal University and Thomson Reuters Strategic Partnership, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 25th May 2015.	Attendance
20	مؤتمر التميز في تعليم وتعلم العلوم والرياضيات الأول- توجه العلوم والتقنية والهندسة والرياضيات	University of King Saud, Riyad, Saudi Arabia, 5-6 May 2015.	Participant
21	2nd International Symposium on Big Data and Cloud Computing Challenges (ISBCC15)	VIT University, Chennai Campus, India, 12-13 March, 2015	Program Committee
22	International Conference of Engineering Mathematics and Applications (ICEMA	November, 2014 Venice, Italy, 12-13	Conference Committee

	2014)		
23	Using Multiple Choice Items to Test Higher-Order Thinking Skills	Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 28th October 2014.	Attendance
24	Third International Conference on Quality Assurance in Postsecondary Education	Imam Abdulrahman Bin Faisal University, Dammam, Shiraton Hotel, Saudi Arabia, 27th -29th April 2013	Attendance
25	The Eighth National GIS Symposium in Saudi Arabia	Imam Abdulrahman Bin Faisal University, Dammam, Shiraton Hotel, Saudi Arabia, 15th -17th April 2013.	Attendance
26	Teaching Skills in the 21st Century	Dean of Education Development, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 17th -18th February 2013.	Attendance
27	2nd Research Methods and Applied Statistics	College of Applied Medical Sciences- Imam Abdulrahman Bin Faisal University mam, Saudi Arabia, 4-5 May 2013	Participant
28	المحاضرة التفاعلية	Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 28 January 2013.	Attendance
29	Advances in Brain-Computer Interfaces with Novel EEG Sensing	Deanship of Education Development, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 29 January 2013.	Attendance
30	Communication Skills	Dean of Education Development, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 03rd December 2012.	Attendance
31	Interactive Lecturing Skills	Dean of Education Development, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 26th November 2012.	Attendance
32	Building a Leaner-Centered Learning Process of a Course Based on Constructivism Concept	Dean of E-Learning and Distance Learning, , Imam Abdulrahman Bin Faisal University, Saudi Arabia, 26th -29th March, 2011	Attendance
33	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, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 26th -29th March, 2011	Attendance
34	The Third Conference of Mathematical Sciences (CMS'2011)	Department of Mathematics, Zarqa University, Jordan, 27th -29th April 2011	Committee and Participant
35	Matrix Products on Matrices and Their Applications	Department of Mathematics, Faculty of Science, Girls Faculty, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 14-05-2011	Speaker
36	Building a Leaner-Centered Learning Process of a Course Based on Constructivism Concept	Imam Abdulrahman Bin Faisal University, Saudi Arabia, 26th -29th March 2011.	Attendance
37	S and T Statistics and Policy Making	ISESCO – Islamic Republic of Pakistan 5th -7th May 2009.	Attendance

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

PART (XV): Membership of Scientific Communities, Organizations and Societies

No.	Name of Scientific Community / Organization / Society	Address	Role
1	Jordan Society for Scientific Research " الجمعية الأردنية للبحث العلمي"	Jordan	A Member
2	Research Group in Mathematical Inequalities and Applications (RGMIA)	Victoria University, Australia & Canada.	A Member
3	Third Conference on Mathematical Sciences (CMS'2011)"	Department of Mathematics, Zarqa University, Jordan	Chairman of Organizing Committee and a member of Technical Committee
4	Second Conference on Mathematical Sciences (CMS'2008)	Department of Mathematics, Zarqa University, Jordan	Coordinator of Organizing Committee and a member of Technical Committee
5	Jordanian-Egyptian Research Team Focusing on Authoring and Translation of Books	Jordan-Egypt	A Member
6	International Symposium on Big Data and Cloud Computing Challenges (ISBCC 2016)	VIT University Chennai Campus-Schools of Computing Sciences- India	A Member of Program Committee
7	American Journal of Operational Research	USA	A Member of Editorial Board
8	Journal of Mathematics Sciences: Advanced and Applications	India	A Member of Editorial Board
9	Journal of Pure and Applied Mathematics: Advanced and Applications	India	A Member of Editorial Board
10	Malaysian Journal of Mathematical Sciences	INSPEM, University Putra Malaysia, Malaysia.	A Member of Editorial Board
11	International Journal of Mathematical Archive	India	A Member of Editorial Board

12	International Journal of Applied and Computational Mathematics	Springer- India	A Member of Editorial Board
13	Computers and Mathematics with Applications	Elsevier Science LTD- England	A Peer-Reviewer
14	World Scientific and Engineering Academy and Society (WSEAS)	Famous University of Harvard, USA	A Peer-Reviewer
15	Punjab University Journal of Mathematics	Punjab University, Pakistan	A Peer-Reviewer
16	Advances in Numerical Analysis	Hindawi-USA	A Peer-Reviewer
17	The Open Numerical Methods Journal	University of Texas-Pan American, USA.	A Member of Editorial Board
18	IEEE Access	Institute of Electrical and Electronics Engineers, UK	A Peer-Reviewer
19	British Journal of Mathematics and Computer Science	UK	A Peer-Reviewer
20	Journal of the Egyptian Mathematical Society	Springer- Egypt	A Peer-Reviewer
21	2nd International Symposium on Big Data and Cloud Computing Challenges (ISBCC'15)	VIT University, Chennai Campus-India	A Member of Program Committee
22	American Journal of Computation, Communication and Control	American Association for Science and Technology-USA	A Peer-Reviewer
23	Special Matrices	Poland	A Peer-Reviewer

❖ TEACHING ACTIVITIES

PART (I): Undergraduate Program at Imam Abdulrahman Bin Faisal University

No.	Course/Rotation Title	No./Code	No. Credit Hrs.	Brief Course Description
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	1st -Order Differential Equations, 2nd 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	TTENG 441	3	Importance of Operation Research, Linear and Non-Linear Programming, Optimal solutions of Linear Programming by

	Research			Graphs, Simplex Methods, Big M Methods, Transportation Problems, Graph Theory, Network Problems and Some Engineering Problems.
7	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.
8	Discrete Mathematics	MATH 301	3	Logic, Functions, Sequences, Matrices, Algorithms, Induction and Recursion, Number theory and cryptography, Counting, Advanced counting technique, Relations, Graphs, Trees.

PART (II): Postgraduate Program at Imam Abdulrahman Bin Faisal University

No.	Course/Rotation Title	No./Code	No. Credit Hrs.	Brief Course Description
1	Selected Topics in Differential Equations	MATH 531	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	MATH 511	2	Planning for preparing Master Thesis and Ph.D Thesis
3	Selected Topics in Analysis	MATH 550	3	Advanced topics in Measure Theory, Topology and Complex Analysis.
4	Special Functions	MATH 555	3	Advanced topics in Special functions such as Gamma and Beta Functions, Mittag-Leffler functions, Fractional Calculus and Fractional differential equations.
5	Numerical Methods for Ordinary Differential Equations	MATH538	3	Analysis and application of numerical methods for boundary value problems, one step, multi-step and Runge-Kutta methods for ODEs with estimating the errors and studying the stability of the method.
6	Advanced Ordinary Differential Equations 1	MATH532	3	Theory of systems of ordinary differential equations. This includes analysis and application of methods for solving boundary value and Sturm Liouville problems, linearization, stability and equilibrium and exponential solutions for linear systems of ordinary differential equations.
7	Dynamical Systems	MATH565	3	Time domain solutions and general exact (numerical) solutions of non-homogeneous time-dynamical differential systems with time domain solutions. Analysis and application of some methods for solving physics and mathematical engineering models.

PART (III): Graduate Program at Zarqa University

No.	Course/Rotation Title	No./Code	No. Credit Hrs.	Brief Course Description
1	Calculus I	0301101	3	Functions, Differentiations, Integrations, Some applications.
2	Calculus II	0301102	3	Parametric equations, Vectors, Partial derivatives, Double integral, Triple Integral, Areas, Volumes.
3	Calculus III	0301201	3	Infinite Sequences and Series, Vectors and Geometry of Space, Vector-Valued Functions and Motion is Space, Integration in Vector Fields.
4	Linear Algebra	0301441	3	Matrices: operations and Properties, System of linear Equations, Vector spaces, Eigen values and Eigen vectors and Some applications to system of ordinary differential equations.
5	Complex Analysis	0301413	3	Complex number and complex plane, Cauchy's Theorem, Meromorphic functions, Harmonic functions, Entire functions and Some applications.
6	Introduction to Functional Analysis	0301414	3	Metric spaces, Normed spaces, Topological spaces, Compact sets, Measure theory, Linear and Functional spaces, Hahn-Banach Theorem,
7	Numerical Methods	0301472	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.
8	Differential Equations I	0301203	3	1st-Order Differential Equations, 2nd Order Differential Equations, Higher Order Differential Equations, Systems of Differential Equations, Laplace Transforms and Power Series Solutions.
9	Differential Equations II	0301403	3	Lyapunov functions in the theory of differential system, Boundary value problems, Periodic solutions of differential equations, Solutions of Partial Differential equations.
10	Special Functions	0301301	3	Advanced topics in Special functions such as Factorial function, Gamma functions, Beta Functions, Hypergeometric functions, Bessel functions, Legendre functions, Special orthogonal polynomials.
11	Integral Transforms	0301401	3	Laplace transforms, Fourier transform, Mellin transform, Integral equations.
12	Vector Analysis	0301303	3	Algebra of vectors, Line vectors, Vector functions, Differentiation and integration of vectors, Stokes Theorem, some applications.

PART (IV): Supervision of Master / Ph.D Thesis

No.	Degree Type	Student Name	Title	Institution	Year
1	Master	Manal Amoudi	Fractional Calculus and Some Applications	Department of Mathematics, Faculty of Science, Girls Faculty, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	2015
2	Master	Nouf Al-Motairi	Analytic Solutions of some Conformable Fractional Differential	Department of Mathematics, Faculty of Science, Girls Faculty, Imam Abdulrahman Bin Faisal University, Dammam, Saudi	2019

			Equations by Using Efficient Methods	Arabia.	
3	Master	Tariq Al-Khoshman	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	2010
4	Master (External Examiner)	Ameera Sharif	Generating Relations of Generalized Hermite Polynomials by Weisner's Group Theoretic Method	Department of Mathematics, Faculty of Science, University of Bahrain, Bahrain.	2018
5	Master	Rawan Abahussian	Analytical Solutions of Some Fractional-Order Models	Department of Mathematics, Faculty of Science, Girls Faculty, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	2024
6	Master	Reem Al-Breek	Analytical Solutions of fractional time Dynamical Systems	Department of Mathematics, Faculty of Science, Girls Faculty, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	2024
7	Master (External Examiner)	Shumoua Alrzqi	Descriptive Numerical and Semi-Analytical Methods for Solving Some Types of Differential Equations	Department of Mathematics, Faculty of Science, Girls Faculty, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	2024
8	Master (External Examiner)	Shaikha Alshomeli	Generating Relations of Two Index and Two Variable Hermite Polynomials	Department of Mathematics, Faculty of Science, University of Bahrain, Bahrain.	2023

❖ ADMINSTRATIVE RESPONSIBILITIES, COMMITTEE AND COMMUNITY SERVICE

PART (I): Administrative Responsibilities

No	From	To	Position	Organization
1	05-09-2011	15-1-2016	Chairman	Department of Basic Engineering Sciences, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
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 Sciences, Zarqa University, Jordan.
4	01-10-2007	21-10-2008	Coordinator of Organizing Committee	Second Conference on Mathematical Sciences, Zarqa University, Jordan
5	03-03-2020	Present	Chairman	Skills Development and Continuity Teaching Committee, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.

6	28-08-2017	Present	Membership	Scientific Research Committee, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
7	15-09-2019	Present	Membership	E-Learning Committee, Scientific Research Committee, College of Engineering, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
8	01-10-2019	Present	Coordinator- College of Engineering	Innovation and Entrepreneurship Agency Committee, Deanship of Developments, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
9	28-02-2021	Present	Chairman of the Continuing Education Committee	College of Engineering- Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia

PART (II): Committee Membership and Community Service

No.	From	To	Position	Organization
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	3rd Conference on Mathematical Sciences
3	01-10-2007	21-10-2008	Organizing and Technical Committee	2nd 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-Imam Abdulrahman Bin Faisal University, Saudi Arabia.
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 + Department of Basic Engineering Sciences, University of Dammam
9	16-9-2007	11-9-2010.	Committee Membership	Council of Mathematics Department, Zarqa University, Jordan.
10	18-9-2011	15-6-2014	Committee Membership	College Website and e-learning, College of Engineering, Imam Abdulrahman Bin Faisal University, Saudi Arabia.
11	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
12	22-10-2008	22-10-2008	Volunteer Work	Jordanian TV, New Day Program, Jordan
13	10-05-2024	12-05-2024	Technical and Reviewing Committee	International Arab Conference on Mathematics and Computations (IACMC2023)

❖ AWARDS AND CERTIFICATES OF APPRECIATION

No.	Name of Award/Letter	Institution	Date
1	Certificate of Appreciation (Top 2% Scientist in the Worldwide in 2023-2024 by Stanford University and Elsevier global Ranking)	Stanford University and Elsevier https://topresearcherslist.com/Home/Search?AuthFull=Al-Zhour	September 2024
2	Certificate of Appreciation (Annual Scientific Forum of Science College (ASFCS-2023)	College of Science- Department of Mathematics-Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.	13 May 2024
3	2 Certificate of Appreciations (World Scientist and University Rankings 2023 and 2024)	AD Scientific Index ID: 457266 https://www.adscientificindex.com/scientist/zeyad-al-zhour/475266	02 July 2024 18 June 2023
4	Certificate of Appreciation (The 8th International Arab Conference on Mathematics and Computations (8IACMS-2023)	Department of Mathematics- Zarqa University- Jordan	10-12 May 2023
5	Outstanding Research Award **(Second Place)**	Deanship of College of Engineering- Imam Abdulrahman Bin Faisal University, Saudi Arabia.	10-05-2022
6	Certificate of Appreciation (Valuable Research collaboration and Contributions)	Presidency of Al-Balqa Applied University- Al-Balqa Applied University, Jordan	01-11-2020
7	Certificate of Appreciation رفع اداء كلية الهندسة وانجاز المتطلبات على الوجه الاكمل	Dean of College of Engineering- Imam Abdulrahman Bin Faisal University, Saudi Arabia.	14-05-2020
8	Distinguished Scientist in Applied Mathematics Award -2018	Venus International Foundation (VIRA-2018)	11-08-2018
9	Outstanding Research Award **(First Place)**	Deanship of College of Engineering- Imam Abdulrahman Bin Faisal University, Saudi Arabia.	30-05-2016
10	Outstanding Teaching Award **(Second Place)**	Deanship of College of Engineering- Imam Abdulrahman Bin Faisal University, Saudi Arabia.	30-05-2016
11	Certificate of Appreciation **(Recognized Effort)**	Presidency of Zarqa University- Zarqa University, Jordan	30-04-2011
12	Certificate of Appreciation **(Recognized Effort)**	Presidency of Zarqa University- Zarqa University, Jordan	07-02-2010
13	Certificate of Appreciation (Administrative and Recognized Effort)	Deanship of Zarqa University- Zarqa University, Jordan	07-02-2010
14	Certificate of Appreciation	Presidency of Zarqa University- Zarqa University, Jordan	02-11-2008

	(Recognized Effort)		
15	2 Bronze Medals Awards **(Scientific Research)**	University Putra Malaysia, Malaysia	2006
16	Silver Medal Award **(Scientific Research)**	University Putra Malaysia, Malaysia	2005
17	Certificates of Reviewing **(Recognition of the Review Contributed to the Journals)**	**1- Elsevier Journals** (Chaos, Solitons and Fractals; Chaos, Alexandria Engineering Journal; Ain Shams Engineering Journal, Applied Mathematics and Computations; Applied Physics Letters; ….etc.) **2- MPDI Journals** (Axioms; Entropy; Mathematics; Symmetry; Fractal and Fractional, …etc.). **3- Springer Journals** (International Journal of Dynamics and Control; International Journal of Applied and Computational Mathematics; Advances in Difference Equations; …etc.) **4- MPDI Journals** (Axioms, Entropy, Mathematics, Symmetry, Fractal and Fractional, …etc.) **5- Hindawi Journals** (Abstract and Applied Analysis; Journal of Applied Mathematics; Computational and Mathematical Methods; …etc.) **6- Natural Sciences Journals** (Applied Mathematics and Information Sciences;…etc.)	2007- Present

❖ **LAST UPDATE: 20-10-2025**