Dr.Izzat Qaralleh

Associate Professor in Mathematics

"Mathematics is the language of nature."

Personal Details

DOB	4th of Feb, 1985
Permanent Address	Jordan, AL-karak
Languages	Arabic,English
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Social	https://web.facebook.com/izzat.garalleh
Network	https://www.linkedin.com/in/dr-izzat-jordon-6781075b/

Education

2012–2014 **Ph.D in Mathematics**, *International Islamic University Malaysia*, *Research mod*. Abstract Algebra

2007–2010 **Master of Mathematics**, *Mutah University*, Jordan, *Excellent*. Approximation Theory

2003–2007 **Bachelor of Mathematics**, *Mutah University*, Jordan, *Good*.

Professional occupation:

2021-until now **Head of Department**, *Department of mathematics* , Tafila Technical University, Jordan.

2021-until now **Associate professor**, *Department of mathematics* , Tafila Technical University, Jordan.

2015-2021	**Assistant professor**, *Department of mathematics* , Tafila Technical University, Jordan.
2014-2015	**Assistant professor**, *Department of mathematics*, University of Tabuk, Saudi Arabia .
2012-2014	**Teaching assistant**, *Deparment of computational and theoretical sciences* , International Islamic University MAlysia, MAlysia.
2010-2012	**Lecturer**, *Faculty of Preparatory Year* , King Saud University, Saudi Arabia.
2007-2010	**Teacher**, *Ministry of Education* , Jordan.

Research field

Algebra	**evolution algebra**, *genetic algebra* , Associative algebra .
Analysis	**Discrete Dynamical Systems** , *Approximation theory.*

Teaching activity

Fall 2022	**Abstract algebra (2)**, *Spacial topics in math.*
Summer 2021	**Abstract algebra (1)**, *Euclidean and non Euclidean geometry.*
Spring 2021	**General math**, *linear algebra.*
Fall 2021	**Abstract algebra (1)**, *Euclidean and non Euclidean geometry.*
Summer 2020	**Abstract algebra (2)**, *Euclidean and non Euclidean geometry.*
spring 2020	**differential equations**, *Euclidean and non Euclidean geometry.*
Fall 2020	**Abstract algebra (1)**, *Euclidean and non Euclidean geometry.*
Summer 2019	**Abstract algebra (2)**, *differential equation*, Research.
Fall 2019	**Abstract algebra (1)**, *Mathematics for chemistry* .
Summer 2018	**Abstract algebra (2)**, *Mathematics for chemistry* .
Spring 2018	**Abstract algebra (1)**, *Mathematics for chemistry* , differential equations.
Fall 2018	**Abstract algebra (1)**, *Calculus (1).*
Summer 2017	**Abstract algebra (2)**, *Mathematics for chemistry* .
Spring 2017	**Abstract algebra (1)**, *Mathematics for chemistry* , Calculus (2).
Fall 2017	**Abstract algebra (1)**, *Calculus (3)*, Mathematics for chemistry .
Summer 2016	**Differential equations**, *Calculus (2)* .
Spring 2016	**Topology**, *Calculus (2)* , differential equations.
Fall 2016	**Differential equations**, *Calculus (2)* , general mathematics.

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Additional Skills

Mechanical Engineering Softwares:

Maple   MATLAB

Additional Softwares

Microsoft Office   LaTeX   Microsoft Access

Personal Skills

- Quick Learner.
- Able to handle multiple situations at the same time.
- Creating Ideas: Creativity.
- Can manage time effectively
- Good Computer handling skills.

Area of Interest

- Abstract algebra
- Dynamical systems and related algebras
- Approximation theory

Languages

Arabic   **Mothertongue**

English   **Excellent**

Publications

1. **Farrukh Mukhamedov, AND Izzat Qaralleh. "Entropy treatment of evolution algebras" Entropy (2022)** ..

2. **Farrukh Mukhamedov,Izzat Qaralleh. "On S-Evolution Algebras and Their Enveloping Algebras." Mathematics (2021)**.

3. **Ahmad Alarfeen, Izzat Qaralleh, Azhana Ahmad. "Properties of nilpotent evolution algebras with no maximal nilindex." European Journal of Pure and Applied Mathematics (2021)**.

4. **Izzat Qaralleh. "A Description of Derivations of a Class of Nilpotent Evolution Algebras." Malaysian Journal of Mathematical Sciences (2020)**.

5. **Izzat Qaralleh, Ahmad Termimi Ab Ghani,Hamza Abd El-Qader. "Classificationn and Dynnamics off Class of $\xi^{(as)}$-QSOs." Journal of Mathematical and Fundamental Sciences (2020)**.

6. **Hamza Abd El-Qader,Ahmad Termimi Ab Ghani, Izzat Qaralleh. "The Derivations of Evolution Algebras under a Given Conditions." Journal of Physics: Conference Series (2020)**.

7. **Hamza Abd El-Qader,Ahmad Termimi Ab Ghani, Izzat Qaralleh. "On evolution algebras and their derivations." Journal of Mathematics and Computer Scinces (2020)**.

8. **Farrukh Mukhamedov, Otabek Khakimov, Izzat Qaralleh. "Classification of nilpotent evolution algebras and extensions of their derivations." Communications in Algebra (2020)**.

9. **Hamza Abd El-Qader,Ahmad Termimi Ab Ghani, Izzat Qaralleh. "On Genetic Algebra and its Transformation to some Evolution Algebras in Dimension Four." Journal of Physics: Conference Series (2020)**.

10. **Izzat Qaralleh, and Farrukh Mukhamedov. "Volterra evolution algebras and their graphs." Linear and Multilinear Algebra (2019): 1-17.**.

11. **Mukhamedov, F., Khakimov, O., Omirov, B., Izzat Qaralleh. "Derivations and automorphisms of nilpotent evolution algebras with maximal nilindex." Journal of Algebra and Its Applications 18, no. 12 (2019): 1950233**.

12. **Ganikhodzhaev, R., Mukhamedov, F., Pirnapasov, A., Izzat Qaralleh . Genetic Volterra algebras and their derivations. Communications in Algebra, 46(3), 1353-1366.(2018)** .

13. **Izzat Qaralleh, Classification of a new subclass of $\xi^{(as)}$-QSO and its dynamics, Journal of Mathematics and computer science,Volume 17 ,Issue 4, Pages 535-544, Publisher International Scientific Research Publications**.

14. **Izzat Qaralleh. "On Genetic and Evolution Algebras." Journal of Physics: Conference Series. Vol. 819. No. 1. IOP Publishing, 2017.** .

15. **Alsarayreh, A. Izzat Qaralleh, Ahmad, M. Z., Al-Shutnawi, B., Al-Kaseasbeh, S. Global and local behavior of a class of $\xi^{(s)}$-QSO.nonlinear sinces and its applications Volume 10, Issue 9, pp 4834–4845(2017)** .

16. **A. Alsarayreh, Izzat Qaralleh, M. Z. Ahmad$\xi^{(as)}$ -QUADRATIC STOCHASTIC OPERATORS IN TWO-DIMENSIONAL SIMPLEX AND THEIR BEHAVIOR,JP Journal of Algebra, Number Theory and Applications Volume 39, Issue 5,Pages 737-770 ,Publisher pushpa publishing house (2017)**.

17. **Alsarayreh, Abdelwahab, Izzat Qaralleh, and Muhammad Zaini Ahmad. "DERIVATION OF THREE-DIMENSIONAL EVOLUTION ALGEBRA." JP JOURNAL OF ALGEBRA NUMBER THEORY AND APPLICATIONS 39.4 : 425-444 (2017)** .

18. **Alsarayreh, A.Izzat Qaralleh I., Ahmad, M. Z. Asymptotic Behavior of Nonlinear Operator,Applied Mathematics and Computational Intelligence Volume 6, Issue 1, Pages 7-18 ,Publisher University Malaysia Perlis (2017)**.

19. **Ahmad, M. Z., Alsarayreh, D., Alsarayreh, A., Izzat Qaralleh. (2017). Differential Transformation Method (DTM) for Solving SIS and SI Epidemic Models. Sains Malaysiana, 46(10), 2007**.

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20. **Izzat Qaralleh**, Muhammad Zaini Ahmad, and Abdelwahab Alsarayreh. "Associative and derivation of genetic algebra generated from $\xi^{(s)}$-QSO." AIP Conference Proceedings. Vol. 1775. No. 1. AIP Publishing, 2016.

21. Mukhamedov, F., **Izzat Qaralleh**, Tafila, J., Pirnapasov, A. On Genetic and Evolution Algebras in Dimension Three. International Journal of Algebra, 10(7), 327-334. (2016) .

22. **Izzat Qaralleh**, *On Dynamics of a class taken from () Quadratic Stochastic Operators ,ournal of Basic And Applied Research(2016).*

23. Khudoyberdiyev, A. Kh, Bakhrom A. Omirov, and **Izzat Qaralleh**. "Few remarks on evolution algebras." Journal of Algebra and Its Applications 14.04 (2015): 1550053.

24. **Izzat Qaralleh** On Dynamics of Quadratic Stochastic Operators journal of Basic And Applied Research(2016).

25. Mukhamedov, Farrukh, **Izzat Qaralleh**, and W. N. F. A. W. Rozali. "On $\xi^{(a)}$-quadratic stochastic operators on 2D simplex." Sains Malaysiana 43.8 : 1275-1281,(2014).

26. Mukhamedov, Farrukh, and **Izzat Qaralleh**. "On derivations of genetic algebras." Journal of Physics: Conference Series. Vol. 553. No. 1. IOP Publishing, 2014.

27. Mukhamedov, Farrukh, Mansoor Saburov, and **Izzat Qaralleh**. "On-quadratic stochastic operators on two-dimensional simplex and their behavior." Abstract and Applied Analysis. Vol. 2013. Hindawi, (2013).

28. Mukhamedov, Farrukh, Mansoor Saburov, and **Izzat Qaralleh**. "Classification of $\xi^{(2)}$-Quadratic Stochastic Operators on 2D simplex." Journal of Physics: Conference Series. Vol. 435. No. 1. IOP Publishing, (2013) .

29. Mukhamedov, Farrukh, Bakhrom Omirov, and **Izzat Qaralleh**. "Description of Three Dimensional Solvable Evaluation Algebras." International Conference on Mathematical Sciences and Statistics 2013. Springer, Singapore, 2014.

30. Rasul Ganikhodzaev, Farrukh Mukhamedov, Mansoor Saburov, **Izzat Qaralleh** ,Dynamics of composition of two quadratic stochastic Volterra operators (2013).

31. Rateb Btoush, **Izzat Qaralleh**,On approximation of continuous function by Hermite interpolation ,MuâĂŹtah Lil-Buhuth wad-Dirasat,26,1 Mutah Uiversity (2011).

32 El-Qader, Hamza Abd, Ahmad Termimi Ab Ghani, **Izzat Qaralleh**, and A. Alsarayreh. "Dynamics of a nonlinear operators generated from $\xi^{(as)}$-Quadratic Stochastic Operators, International Journal of Engineering Research and Technology. ISSN 0974-3154, Volume 12, Number 2 (2019), pp. 162 - 171" .

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2. **Ahmad Alarfeen, Izzat Qaralleh, Azhana Ahmad. "ON PROPERTIES OF SOME NILPOTENT EVOLUTION ALGEBRAS AND ITS ENVELOPING ALGEBRA ." Journal of algebra and its applications (2022)**.

Submitted Papers

1. **FARRUKH MUKHAMEDOV, OTABEK KHAKIMOV, AND Izzat Qaralleh. "A few remarks on topological aspects of nilpotent evolution algebras" Linear and multilinear algebra (2022)** .

2. **Izzat Qaralleh. "Tensor product of finite nilpotent evolution algebras ." Algebras and Representation Theory (2022)**.

Invited Conferences and workshops

1. **(2022)Non-associative Algebras, Dynamical Systems and Their Applications in Biology Shah Alam, Kuala Lumpur, Malysia 28th July 2022**.

2. **(2017)The Second International Conference on Groups, Group Rings and Related Topics (GGRRT 2017) Oceanic Khorfakkan Resort Spa, Khorfakkan, UAE 19th - 22th Nov 2017**.

3. **(2016) 37th International Conference on Quantum Probability and Related Topics (QP37) 22-26 Aug 2016. Kuantan, Malaysia CNUM: C16-08-22.8**.

4. **(2012)Classifications of $\xi^{(s)}$ (s) -QSO on 2D simplex. In: International Conference on Advancedment in Science and Technology (IIUM-iCAST 2012), Contemporary Mathematics,Mathematical Physics and their Applications, 70 10 November, Kuantan, Pahang, Malaysia.** .

5. **(2012) On dynamics of a class of $\xi^{(s)}$ quadratic stochastic operators on 2D simplex. In: International Science Postgraduate Conference 2012 (ISPC 2012), 27-30 November , Skudai, Johor.** .

6. **(2012) A behavior of a class of $\xi^{(s)}$ -QSO in dimension 2. In: Malaysian Science and technology Congress (MSTC 2012), 19 - 21 Nov , SIME DARBY Convention Center, Bukit Kiara, Kuala Lumpur.** .

7. **(2012) A new class of quadratic stochastic operators, Tashkent**.

8. **(2013) Description of three dimensional Solvable Evaluation Algebras. International Conference on Mathematical Sciences and Statistics (ICMSS2013).5-7 February .Sunway Putra Hotel, Kuala Lumpur, MALAYSIA**.

9. **(2013) On Derivations Of Genetic Algebras. IIUM Congress on Science 2013 (Pahang, Malaysia). 3-5 December Bukit Gambang Resort City (BGRC).** .

VISITING SCHOLAR

2019, Visiting scholar at International Islamic University Malaysia

CO-SUPERVISOR FOR PHD STUDENTS

1 Ahmad Alarfeen , Universiti Sains Malaysia, Malaysia (in progress)

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2 Hamza Abd El-Qader , Universiti Malaysia Terengganu, Malaysia (2020)

3 Abdelwahab Alsarayreh, University Malaysia, Perlis, Malaysia (2018)

Thesis examiner

1. **External examiner of master thesis by Sondos Muhammed Syam, United Arab Emirates University, (2021).** .
2. **(2013) External examiner of master thesis by Rawan abd alrhman alhroot, Mutah University, (2022).** .
2. **(2013) External examiner of master thesis by Wael Muhammed Aborqiq, Mutah University, (2022).** .
3. External examiner of master thesis by

Citations and H-index

Google Scholar: https://scholar.google.com/citations?user=JjR8Sp0AAAAJ&hl=en

researchgate: https://www.researchgate.net/profile/Izzat-Qaralleh

References

These persons are familiar with my professional qualifications and my character:

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Declaration

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particular.

Date:

Place:

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