

Curriculum vitae (C.V)



Abdu Qaid Saif Alameri

University of Science and Technology
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Current job

Lecturer and Faculty member in Applied Mathematics at the College of Engineering at the University of Science and Technology of Yemen, Sana'a, from 2010 AD until now, in addition to my work as a **coordinator of university requirements** from 2015 AD. **I published more than thirty articles**, mostly **ISI** and **Scopus** indexing, I was awarded the **Best Researcher Award in the College of Engineering** for the years 2019 and 2020. I have **written several books** on applied mathematics, some of which have been published and some in preparation. Also, **I'm reviewer of several articles** in peer-reviewed scientific journals, such as the Journal of Molecular Graphics and Modelling (in **Elsevier**), **IEEE Access** (in Institute of Electrical and Electronics Engineers Inc.), and the Journal of Chemistry (in **Hindawi**).

Education

PhD Degree in Discrete Mathematics Department of BME- Basic Science- Faculty of Engineering- University of Science and Technology. Grade: Excellent

Supervisor: **Prof. Ahmed Ayache**- Professor of Mathematics- Bahrain University.

Thesis Title: **TOPOLOGICAL INDICES OF SOME NEW GRAPHS.**

M.Sc. Degree applied Mathematics- Department of Mathematics- Faculty of Applied Science- Taiz University. Grade : Very good

Supervisor: **Prof. Adil Mahmood**- Professor of Mathematics- Baghdad University.

Thesis Title: **SOME RESULTS ON FUZZY GRAPH.**

B.Sc. Degree in Mathematics and Physics- Department of Mathematics- Faculty of Education- Taiz University. Complementary Certificate in applied Mathematics- Department of Mathematics- Faculty of Applied Science- Taiz University.

Teaching Experience

University of Science and Technology- Sana'a- 2010- current.

Teaching courses: Mathematics- Calculus- Differential Equations- Statistics and Probability- Statistics in Administrative Sciences- Linear Algebra and Discrete Mathematics.

Taiz University- 2008 - 2010.

Teaching courses: logic and groups, Numerical series, Calculus(2), linear algebra(1) and Linear Algebra(2).

National University- Taiz- 2007- 2010.

Teaching courses: Numerical Analysis, Statistics and Probability, Mathematics(1), Mathematics(2).

Al Saeed University- 2007 - 2010.

Teaching courses: logic and groups, Statistics and Mathematical analysis.

Research Interests

- Applied Mathematics
- Discrete Mathematics
- Graph theory
- Chemical Graphs
- Topological Indices
- Fuzzy Graphs

programming skills

MATLAB, PYTHON, GEOGEBRA,

AMOS, SPSS, MICROSOFT OFFICE

ChemBio3D and LATEX.

PUBLICATIONS

Papers

1. A note on Topological indices and coindices of disjunction and symmetric difference of graphs. A. **Alameri**, M Alsharafi, E Ali, MS Gumaan. *Discrete Applied Mathematics* 304, 230-235, **2021**
2. The second Hyper-Zagreb index of graph operations. A Modabish, A **Alameri**, MS Gumaan, M Alsharafi. *J. Math. Comput. Sci.* 11 (2), 1455-1469, **2021**
3. The Second Hyper-Zagreb Index of Complement Graphs and Its Applications of Some Nano-Structures. M Alsharafi, Y Zeren, A **Alameri**. *AJPAS*, **2021**
4. Three Topological Indices of Two New Variants of Graph Products. M Bilal, MK Jamil, M Waheed, A **Alameri**. *Mathematical Problems in Engineering* 2021, **2021**
5. The Second Hyper-Zagreb Coindex of Chemical Graphs and Some Applications. A Ayache, A **Alameri**, M Alsharafi, H Ahmed. *Journal of Chemistry* 2021, **2021**
6. F-coindex of some corona products of graphs. A **Alameri**. *Journal of Discrete Mathematical Sciences and Cryptography*, 1-16, **2021**
7. Topological Indices of Some New Graph Operations and Their Possible Applications. A **Alameri**, MSY Al-Sharafi. *Asian Journal of Probability and Statistics*, 16-30, **2021**
8. Second Hyper-Zagreb Index of Titania Nanotubes and Their Applications. A **Alameri**. *IEEE Access* 9, 9567-9571, **2021**
9. The F-index and coindex of V-Phenylenic Nanotubes and Nanotorus and their molecular complement graphs. A **Alameri**, M Al-Sharafi. *Наносистемы: физика, химия, математика* 12 (3), 263-270, **2021**
10. Molecular Topological Properties of Spider's Web Graph and their Possible applications. A Ayache, A Alameri. *CCCS*, 2021
11. Modified Zagreb Connection Indices for Benes Network and Related Classes. Wang, W., Nisar, A., Fahad, A., Qureshi, M. I., & **Alameri**, A. (2022). *Journal of Mathematics*, 2022.
12. On the Planarity of Extended Zero-Divisor Graphs of Local Rings. Binyamin, M. A., Chaudry, S. A., Abbasi, M. S., & **Alameri**, A. (2022). *Mathematical Problems in Engineering*, 2022.
13. Computation Domination and γ - Domination Topological Indices of Hexane Isomers via ϕP -Polynomial with QSPR Analysis. Ahmed, H., Raghavachar, R., **Alameri**, A., & Morgan, R. S. (2022)
14. The first and second Zagreb index of complement graph and its applications of molecular graph. MS Alsharafi, MM Shubatah, AQ **Alameri**. *Asian Journal of Probability and Statistics*, 15-30, **2020**
15. On the Hyper-Zagreb coindex of some graphs. MS Alsharafi, MM Shubatah, AQ **Alameri**. *J. Math. Comput. Sci.* 10 (5), 1875-1890, **2020**
16. Y-coindex of graph operations and its applications of molecular descriptors. A **Alameri**, M Al-Rumaima, M Almazah, *Journal of Molecular Structure*, 128754, **2020**
17. The hyper-Zagreb index of some complement graphs. M Alsharafi, M Shubatah, A **Alameri**. *Advances in Mathematics: Scientific Journal* 9 (6), 3631-3642, **2020**

18. Zagreb indices, Hyper Zagreb indices and Redefined Zagreb indices of conical graph. A **Alameri**, M Shubatah, M Alsharafi. *Advances in Mathematics: Scientific Journal* 9 (6), 3631-3642, **2020**
19. Wiener polynomial and Wiener index of conical graphs. A Ayache, A **Alameri**, A Ghallab, A Modabish. *Sylwan* 164 (3), 107-116, **2020**
20. Y-index of some graph operations. A **Alameri**, N Al-Naggar, M Al-Rumaim, M Alsharafi. *International Journal of Applied Engineering Research (IJAER)* 15 (2), 173-179, **2020**
21. The forgotten index of complement graph operations and its applications of molecular graph. MS Alsharafi, MM Shubatah, AQ **Alameri**. *Open Journal of Discrete Applied Mathematics* 3 (3), 53-61, **2020**
22. Zagreb Indices of Some New Graphs, A **Alameri**, E Ali, A Modabish, **2018**
23. Topological indices of the mk-graph. A Ayache, A **Alameri**. *Journal of the Association of Arab Universities for Basic and Applied*, **2017**
24. New product binary operations on graphs. A **Alameri** *Journal of Science and Technology* 21 (1), **2016**
25. New Product Operation on Graphs and it's Properties. A **Alameri**, A Modabish, A Ayache, *International Mathematical Forum* 11 (8), 357-368, **2016**
26. The Obstacles of Applying the Total Educational Quality Standards at The University of Science And Technology Of Yemen." From the Perspectives of Staff". NQ Al-Naggar, A Abbas, AQ Al **Ameri**. *The Arab Journal for Quality Assurance in Higher Education* 8 (3), 25-25, **2015**
27. Enumeration of spanning trees in a chain of diphenylene graphs, *Journal of Discrete Mathematical Sciences and Cryptography*, 2022
28. On the Planarity of Extended Zero-Divisor Graphs of Local Rings, *Mathematical Problems in Engineering*, 2022
29. Modified Zagreb Connection Indices for Benes Network and Related Classes, *Journal of Mathematics*, 2022
30. Computation Domination and γ -Domination Topological Indices of Hexane Isomers via ϕ_P -Polynomial with QSPR Analysis, *Biointerface Research in Applied Chemistry*, 2022
31. Wiener Index of Intuitionistic Fuzzy Graphs with an Application to Transport Network Flow, *Complexity*, 2022
32. Prediction of thermal and energy transport of MHD Sutterby hybrid nanofluid flow with activation energy using Group Method of Data Handling (GMDH), S. Krishna, M. Shanmugapriya, A. Alsinai, A. **Alameri**, 2022.

Books

1. Topological Indices Types In Graphs. A **Alameri**, M Alsharafi, Generis Publishing, ISBN: 9798722479891, First edition, **2021**.
2. Basic of calculus. M. M. Almazah, A. **Alameri**. Alamein for Publishing, Fourth Edition, **2020**.
3. Fundamentals of mathematics. . M. M. Almazah, A. **Alameri**, Alamein for Publishing, Fifth edition, **2019**.

Training courses

- Course in description of courses according to the world rankings (ABET) UST, Yemen, Sana'a
- Courses in educational guidance methods- Training management education sector, Taiz.
- Course in learning difficulties - Child Evaluation and Education Center in Kuwait.
- Course in hypnosis (ABH)- Glory Center for Training and Human Development.
- Courses in planning and teaching methods and Calendar - Glory Center, Taiz.
- Course in (NLP)- Glory Center for Training and Human Development, Taiz.
- Course in evaluation methods and exam preparation UST, Yemen, Sana'a.
- Course in modernizing health science curriculum- UST, Hodeida.
- Course in effective teaching methods UST, Yemen , Sana'a.
- Course in preparation banks Questions UST, Sana'a.
- Course In the teaching methods - UST, Taiz.
- Course in e-learning system - UST, Taiz

REFERENCES

Prof. Ahmed Ayache

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Prof. Noman Al-Naggar

Department of Biomedical Engineering, Faculty of Engineering,
University of Science and Technology, Yemen. Email: noman_qaed@yahoo.com

Assoc. Prof. Mohammed Almazah

Department of Mathematics, Faculty of Science and Arts,
King Khalid University, KS.A and Ibb University, Yemen. Email: mmalmazah@kku.edu.sa

Assoc. Prof. Muhammad Kamran Jamil

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Riphah International University, Pakistan. Email: m.kamran.sms@gmail.com

Assoc. Prof. Abdelhafid Modabish

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