



Bilal Naser Abdullah Al-Hasanat

PERSONAL INFORMATION	Nationality: Jordanian Date of Birth: 01/06/1976 Place of Birth: Wadi Mousa Marital status: Married Permanent Address: Wadi Mousa- Ma'an- Jordan Mobil No.: 00962777311312
CONTACT INFORMATION	Department of Mathematics Al Hussein Bin Talal University bilal.hasanat@yahoo.com bilal@ahu.edu.jo Ma'an – Jordan
RESEARCH INTERESTS	Group theory and generalizations, Geometry, Computing, Graph theory, Field theory and polynomials.
EDUCATION	Universiti Sains Malaysia , 11800, Pulau Pinang - Malaysia Ph.D., Mathematics, November 2015 • Thesis Title: <i>Some Results on the Conjugacy and Orders Classes of Some Groups</i> Mutah University , 61710, Al Karak - Jordan M.S., Mathematics, June 2007 • Thesis Title: <i>On Certain Problems of Projective Geometry</i> Yarmouk University , Irbid, Jordan B.S., Mathematics, June 1997
EXPERIENCE	- Associate Professor Sep., 2020 Department of Mathematics Al Hussein Bin Talal University, Ma'an, Jordan. - Assistant Professor Sep., 2016–Sep., 2020 Department of Mathematics Al Hussein Bin Talal University, Ma'an, Jordan. - Full time lecturer Sep., 2009 – Sep., 2016 Department of Mathematics Al Hussein Bin Talal University, Ma'an, Jordan. - Maths Teacher Sep., 1997 – Apr., 2007 Petra Education Directory Ministry of Education, Jordan.

COURSES
TAUGHT

- * All Calculus levels.
- * Set Theory.
- * Euclidean and non-Euclidean geometry.
- * Linear Algebra.
- * Abstract Algebra.
- * Numerical Analysis.
- * Graph Theory.
- * Computerized Mathematics.

SUPERVISION OF
MASTER THESIS

- ✓ Ala'aldin Al Shaboul/Main supervisor. Thesis Title: *On the classification of all groups of order 5^4* , (2019).
- ✓ Suhib Aref Alrtaimat/Main supervisor. Thesis Title: *On graph representation of finite groups*, (2019).
- ✓ Hasan Aljondy/Main supervisor. Thesis Title: *On groups of the same order type*, (2020).
- ✓ Mohammad Alzo'bi/Main supervisor. Thesis Title: *On commutativity degree and co-prime probability of finite groups*, (2020).
- ✓ Ahmad Suliman Alsaudi/Main supervisor. Thesis Title: *On Groups Norms*, (2021).
- ✓ Hothifa Ahmed Al-Hasanat/Main supervisor. Thesis Title: *On Edge irregularity strength of finite graphs*, (2021).
- ✓ Ekram Hasan Al-Hasanat/Main supervisor. Thesis Title: *On the Conjugacy Classes of Finite Groups*, (2021).
- ✓ Dana Jehad AL-Jaraden/Main supervisor. Thesis Title: *Irregularity Strength of Finite Graphs*, (2022).
- ✓ Mohammad Hamad Alkhalwaldeh/Main supervisor. Thesis Title: *On Finite Groups through Conjugation*, (2022).

REFEREED
JOURNAL
PUBLICATIONS

- Asma Almazaydeh, Bilal N. Al-Hasanat and Remal S. Al-Gounmeein, On the Edge Irregularity Strength of Finite Graphs, *Contemporary Mathematics*, **6**(1), 246-255, 2025.
<https://doi.org/10.37256/cm.6120255957>
- Ibrahim Jawarneh, Abd Ulazeez Alkouri, Jehad AlJaraden, Bilal N. Al-Hasanat and Mohammad Hazaimah, On The Fuzzy Topological Spaces Based On a Fuzzy Space (X, I) , *Applied Mathematics & Information Sciences*, **18**(6), 1295-1301, 2024.
<http://dx.doi.org/10.18576/amis/180611>

- Bilal N. Al-Hasanat, J. J. Jaraden and L. Oukhtite, On the commutativity of prime rings using some differential identities, *Proc. Jangjeon Math. Soc.*, **27**(2), 289-296, 2024.
<http://dx.doi.org/10.17777/pjms2024.27.2.289>
- Bilal N. Al-Hasanat and Khaled A. Al-Sharo, Characterizing Finite Groups with Normal p -Subgroups for the Smallest Prime Divisor of the Order of the Group, *JP Journal of Algebra, Number Theory & Applications*, **63** (3), 237-246, 2024.
<http://dx.doi.org/10.17654/0972555524014>
- Bilal N. Al-Hasanat, Ahmad H. Alkasasbeh, Ibrahim A. Jawarneh and Remal S. Al-Gounmeein, \mathcal{A} -Subgroups and \mathcal{A} -Groups, *Applied Mathematics & Information Sciences*, Accepted, 2024.
- Remal Shaher Al-Gounmeein, Mohd Tahir Ismail, Bilal N. Al-Hasanat and Ahmad M. Awajan, Improving Models Accuracy Using Kalman Filter and Holt-Winters Approaches Based on ARFIMA Models, *IAENG International Journal of Applied Mathematics*, **53** (3), 869–878, 2023.
- Ahmad M. Awajan, Bilal Al-Hasanat, Elarbi Elkaroui, Ayed AL e'damat, Remal S. Al-Gounmeein, Abdullah S. Al- Jawarneh, Heba N. Ayyoub and Eyad AlFarajat, Time Series Forecasting of New Cases for COVID-19 Pandemic in Jordan Using Enhanced Hybrid EMD-ARIMA, *Journal of Statistics Applications & Probability*, **13** (1), (2023), 261–271.
<http://dx.doi.org/10.18576/jsap/130118>
- J. J. Jaraden, Bilal Al-Hasanat, L. Oukhtite and Isra'a Al-lawama, Some differential identities for rings involving prime ideals, *Appl. Math. Inf. Sci.*, **17** (2), (2023), 1–5.
- Bilal N. Al-Hasanat and Asma Almazaydeh, Normal Covering of Finite Groups, *International Journal of Mathematics and Computer Science*, **17** (4), (2022), 1595–1603.
- Bilal N. Al-Hasanat and Ahmad M. Awajan, On the commutativity degree of certain finite groups, *International Journal of Applied Mathematics*, **35** (6), (2022), 827–838.
<http://dx.doi.org/10.12732/ijam.v35i6.2>
- Bilal N. Al-Hasanat, Awni F. Al-Dababseh, Khaled A. Al-Sharo and Baheej R. Al-Shuraifeen, On the direct product of nearly s -permutable subgroups, *International Journal of Applied Mathematics*, **35** (2), (2022), 307–315.
<http://dx.doi.org/10.12732/ijam.v35i2.9>
- Faten Alwan, Mashhour Bani-Ata and Bilal Al-Hasanat, On certain finite geometric structures, *Communications in Algebra*, **50** (9), (2022), 3734-3743.
<http://dx.doi.org/10.1080/00927872.2022.2042547>
- Bilal N. Al-Hasanat and Asma Almazaydeh, On classification of groups of order p^4 , p odd prime, *Journal of Mathematics and Statistics*, **17** (4), (2022), 1569–1593.

- Murhaf Alabdullah, Bilal N. Al-Hasanat and Jehad Jaraden, Noetherian and Artinian Ternary Rings, *Int. J. Open Problems Compt. Math.*, **14**(1), (2021), 6–16.
- Alaa Alrawajfeh, Bilal N. Al-Hasanat, Hothifa Alhasanat and Feras M. Al Faqih, On the edge irregularity strength of the corona product of some graphs, *International Journal of Mathematics and Computer Science*, **16**(2), (2021), 639–645.
- Bilal N. Al-Hasanat, Permutability of subgroups of semidirect product of p -groups, *International Journal of Algebra*, **13** (7), (2019), 331 –339. <https://doi.org/10.12988/ija.2019.9828>
- Bilal N. Al-Hasanat, On edge irregularity strength of some graphs, *Advances and Applications in Discrete Mathematics*, **21** (2), (2019), 193–202. [doi:http://dx.doi.org/10.17654/DM021020193](http://dx.doi.org/10.17654/DM021020193).
- Bilal N. Al-Hasanat and Ahmad S. Alhasanat, Order Graph: A new representation of finite groups, *International Journal of Mathematics and Computer Science*, **14** (4), (2019), 809–819.
- Bilal Al-Hasanat, Awni Dababseh and Asmaa Alissa, Permutable subgroups of groups of order 16, *International Journal of Applied Mathematics*, **32** (1), (2019), 101-110. <http://dx.doi.org/10.12732/ijam.v32i1.10>
- Sadoon Abdullah Al-Obaidy and Bilal N. Al-Hasanat, Classification technique for linear discriminate analysis for civil engineering students as per their specialization, *Int. J. Appl. Math. Stat.*, **57**(4), (2018), 10–25.
- Bilal N. Al-Hasanat, Jehad M. Alhasanat and Enas M. Salah, On Non-abelian Groups of Order 2^n , $n \geq 4$ Using GAP, *International Journal of Applied Mathematics*, **31**(1), (2018). <http://dx.doi.org/10.12732/ijam.v31i1.4>.
- Bilal N. Al-Hasanat, Asad A. Al-Hasanat and Mohanad Al-Hasanat, Groups With Primes Order Classes, *International Journal of Pure and Applied Mathematics*, **116**(3), (2017), 695–699. <http://ijpam.eu/contents/2017-116-3/15/index.html>.
- Bilal N. Al-Hasanat, Awni Al-Dababseh, E. Al-Sarairah, Sadoon Alobiady and Mahmoud Bashir Alhasanat , An upper bound to the number of conjugacy classes of non-abelian nilpotent groups. *Journal of Mathematics and Statistics*, **13**(2), (2017), 139–142. <http://dx.doi.org/10.3844/jmssp.2017.139.142>.
- Mahmoud Bashir Alhasanat, Bilal N. Al-Hasanat and E. Al-Sarairah , The Order Classes of 2-Generator p -Groups. *Journal of Applied Mathematics*, vol. **2016** (2016), Article ID 8435768, 6 pages. <http://dx.doi.org/10.1155/2016/8435768>.
- E. Al-Sarairah, Bilal N. Al-Hasanat and A. Hachicha, On the stability of planner premixed flames under non adiabatic conditions and preferential

diffusion. *Journal of Thermal Science and Engineering Applications*, **9**(3), (2016),031010–031010.

<http://dx.doi.org/10.1115/1.4035938>.

- Bilal N. Al-Hasanat, Ahmad, A. and Sulaiman, H. , The order classes of dihedral groups. *Proceeding of Mathematical Sciences National Conference (SKSM21)*, AIP Conference Proceedings 1605 (2014), 551–556. <http://dx.doi.org/10.1063/1.4887648>.
- Bilal N. Al-Hasanat, Ahmad, A. and Sulaiman, H., Order classes of symmetric groups. *International Journal of Applied Mathematics*, **26**(4), (2013), 501-510.
- Bilal N. Al-Hasanat, Dihedral Groups Of Order 2^{m+1} . *International Journal of Applied Mathematics*, **26**(1), (2013), 1-7.
- Bilal N. Al-Hasanat and Sadoon Abdullah I.O, The conjugacy class of symmetric groups. *International Journal of Applied Mathematics*, **25**(5), (2012), 603-607.
- Al-Ali M.I., Bilal N. Al-Hasanat, Neumann A. and others, On B -injectors of symmetric groups S_n and alternating groups A_n : a new approach. *Colloquium Mathematicum*, **115**(2), (2009), 247-258.
- Mashhour I. Al-Ali and Bilal N. Al-Hasanat, The autotopism group of a semifield of order p^4 , p is an odd prime. *Communications in Algebra*, **37**, (2009), 1240–1247.

SUBMITTED
JOURNAL
PUBLICATIONS

1. Bilal N. Al-Hasanat, Ahmad S. Alhasanat, Ahmad H. Alkasasbeh and Remal S. Al-Gounmeein, *Perm-Graph of Finite Groups*, submitted.
2. Bilal Al-Hasanat, Ahmad Alhasanat, Ahmad Alkasasbeh, Asma Almazaydeh, *graphs combining*, submitted.
3. Bilal N. Al-Hasanat, *Counterexamples for Some Conjectures of Finite Groups*.

CONFERENCES

- The 3rd Zraqa Private University Conference, Jordan, Aug. 2008.
- Symposium Kebangsaan Sains Matematik-21, Pulau Pinang-Malaysia, Nov. 2013.
- The International Conference on Algebra and its Applications 26-28, Errachidia, Morocco, April 2017.

HARDWARE AND
SOFTWARE
SKILLS

- The International Computer Driving License (ICDL), 2001.
- ICDL trainer, Petra Education Department.
- GAP, Mathematica, Autocad, LaTeX, Microsoft Office (Word, Excel, Access, Power point), and other softwares.

SOCIAL LINKS

- ✓ **Web of Science**
- ✓ **Research Gate**
- ✓ **Scopus**
- ✓ **Orcid**
- ✓ **Google Scholar**

ENGLISH
LANGUAGE

- ELITES with Overall Band 5.5.

REFERENCES

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