

**CURRICULUM VITAE**  
**Bilal Naser Abdullah Al-Hasanat**  
May, 2021.



## PERSONAL

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Place of Birth: Wadi Mousa, Jordan  
Date of Birth: 01/06/1976  
Marital status: Married  
Nationality: Jordanian  
Work Address: Department of Mathematics,  
College of Science,  
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## ACADEMIC QUALIFICATIONS

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2011-2015, **Ph.D.**, Abstract Algebra, **Universiti Sains Malaysia**, Malaysia.  
Thesis Title: *Some Results on the Conjugacy and Orders Classes of Some Groups.*  
2005-2007, **M.Sc.**, Abstract Algebra, **Mutah University**, Al-Karak - Jordan.  
Thesis Title: *On Certain Problems of Projective Geometry*  
1993-1997, **B.Sc.**, Mathematics, **Yarmouk University**, Irbid - Jordan.

## SPECIALITY

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General Specialization: Mathematics.  
Specialization: Abstract Algebra.

## CAREER HISTORY

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**Sep., 2020–Present** Associate Professor, Department of Mathematics, College of Science, Al Hussein Bin Talal University, Maan, Jordan.

**Sep., 2016–Sep., 2020** Assistance Professor, Department of Mathematics, College of Science, Al Hussein Bin Talal University, Maan, Jordan.

**Sep., 2009 – Sep., 2016** Full time lecturer, Department of Mathematics, College of Science, Al Hussein Bin Talal University, Maan, Jordan.

**Sep., 1997 – Apr., 2007** Maths Teacher, Petra Education Directory, Ministry of Education, Jordan.

## RESEARCH INTERESTS

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- Field theory and polynomials,
- Group theory and generalizations,
- Geometry,
- Computing,
- Graph theory.

## PUBLICATIONS

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### *Peer-reviewed journal articles*

- 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, Counterexamples for Some Conjectures of Finite Groups, *Advances and Applications in Discrete Mathematics*, Accepted, (2019).
- Bilal N. Al-Hasanat, On classification of groups of order  $p^4$ ,  $p$  odd prime, *Journal of Mathematics and Statistics*, Accepted, (2019).
- Bilal N. Al-Hasanat, Permutability of subgroups of semidirect product of  $p$ -groups, *International Journal of Algebra*, **13** (7), (2019), 331–339.  
doi: <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>.

- 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.  
doi: <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).  
doi: <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.  
doi: <http://dx.doi.org/10.12732/ijpam.v116i3.15>.
- 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.  
doi: <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.  
doi: <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.  
doi: <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.  
doi: <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 articles**

- Faten Alwan, Mashhour Bani-Ata and Bilal Al-Hasanat, On Certain Geometries Structures, submitted.
- Hamzeh T Alkawasbeh, Feras M. AlFaqih, Bilal N. Al-Hasanat, Mohammed Z. Sawalmeh and Haneen A. Saleh, Numerical Simulation for MHD Flow of Oxide Nanoparticles-Mineral Oil Based Casson Nanofluid over Vertical Stretching Sheet, submitted.
- Bilal Al-Hasanat, Jehad Jaraden, Bilal N. Al-Hasanat and Murhaf Alabdullah, Noetherian and artinian ternary rings, submitted.

## CONFERENCES AND PROCEEDINGS

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

## COURSES TAUGHT

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

## SUPERVISION OF MASTER THESIS

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- 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).

- Samer Abuallsallal/Main supervisor. Thesis Title: *The Covering Numbers of Finite Groups*, (2020).
- Ekhlas Hussein Alttawarh/Assistant supervisor. Thesis Title: *Some differential identities for ring involving prime ideals*, (2019).
- Azhar Bani-Ata'/Assistant supervisor. Thesis Title: *Non-abelian 2-generator groups of order  $2^n$ ,  $n \geq 4$* , (2020).
- Ahmad Alsaudi /Main supervisor. Thesis Title: *On Group Norms*, (2021).
- Ekram Al Hasanat /Main supervisor. Thesis Title: *On the Conjugacy Classes of Finite Groups*, (2021).
- Hodifah Al-Hasanat /Main supervisor. Thesis Title: *On Edge Irregularity Strength of Some Graphs*, (2021).

## SKILLS

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### *Languages*

- Arabic (native).
- English (v.good), ELITES with Overall Band 5.5.

### *Computer Programs*

- 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.