ABDULLAH ALJOUIEE

MATHEMATICS PROFESSOR

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Affiliation
Al-Imam Mohammad Ibn
Saud Islamic University
College of Science
Mathematics Department

Date of Birth: 26 Oct,1965
Place of Birth: Riyadh
Nationality: Saudi

Present Resident in Saudi Arabia
Martial Status: Married

EMPLOYMENT HISTORY

- Professor at Al Imam
- Mohammad Ibn Saud Islamic University. *2015 – present*
- Associate Professor at King Saud University, and Al-Imam Mohammed Ibn Saud Islamic University. *2009 - 2015*
- Assistant Professor at King Saud University. *2003 - 2009*
- Lecturer at King Saud University. *1992- 2003*
- Assistant Instructor at King Saud University. *1990 - 1992*

PROFESSIONAL SKILLS

Computer Skills

- Office
- LaTex
- Basic Programming.
- PMP.

Languages

- Mother language (Arabic)
- English

Indiana University (USA)
August 2002

Ph.D in Mathematics

Thesis title: On Weak 2-Cocycles and their Algebras.

Major: Algebra, Minor: Topology.

King Saud University
August 1992

Master in Mathematics

Thesis title: Group Representations and their

Application to Differential equations.

Major: Algebra, Minor: Analysis.

King Saud University
May 1989

Bachelor in Mathematics

AREA OF INTEREST

- Group Theory.
- Graph Labeling.
- Coxeter groups and Combinatorics.
- Homolgical Algebra.
- Numerical Methods.

AWARDS & ACHIEVEMENTS

Awards

- 1988 (the ideal student prize) KSU.
- 1989 (the best poem prize) KSU.
- 2002 (the Rothrock Teaching award) Indiana University.

Achievements

- 2003 Head of mathematics department.
- 2004 Reviewer of ZentralBlatt.
- 2009 Translator of math text books for high school.
- 2013 member of the scientific council.
- 2015 Full professor and Vice dean for graduate studies of college of science.

TEACHING & SUPERVISION

• Teaching

*At KSU:

 Calculus I ,II, III   - Discrete Mathematics - Linear Algebra - Graph Theory   - Abstract Algebra - Complex Analysis. – Topology -Math by Maple(software) - Rings and Fields   - Group Theory   - Combinatorics.

* At Indiana University:

 Calculus - Finite mathematics   - Problem Solving .

* At Princes Norah University:

Graduate School: Selected Topics in Algebra(Non-Commutative Rings for Ph.D students) - Advanced Group Theory for Masters students.

* At Al-Imam Mohammad Ibn Saud Islamic University:

Linear Algebra – Modern Algebra – Research Project – Algebra (for master degree students) – Complex Analysis.

• Supervision

I was a supervisor for two masters students, both of them have finished their degrees. One was working on Coxeter groups and the other was working on a topic in some essential properties of finite groups.

- • - Coxeter Groups and the Lower Subtractive Graphs 2008. (Master)
- • - Basis Property in Finite Groups 2009. (Master).
- • - Main referee for a Ph.D. dissertation in Graph Labeling.

EXPERIENCES

ADMINISTRATIVE WORK

- • Vice Dean of Science College for Graduate studies and scientific research (2014–)
- • A member of graduate studies council (2015-present).
- • A member of scientific council (2013-present).
- • A member of Saudi Inventors Association (2013-present).
- • The manager of future scientists project at king Abdulaziz city for science and technology -KACST" (2013-2014).
- • A member of the council of scientific research deanship (2012-2014)
- • A member of the council of King Abdullah institute for translation and Arabization (2012 -present).
- • The head of math. Dep. at Al-Imam Mohammed Ibn Saud Islamic University (2012-2015).
- • A member of mathematical standard at Higher Education (2011-2012).
- • The manager of international olympiad project at king Abdulaziz and his companions for giftedness and creativity -Mawhibah" (2011-2012).
- • A consultant in Mawhibah (2009-2015).
- • A consultant in Obeikan research and development company (2009-2010).
- • Head of Saudi Association for Mathematical Sciences (2008-2011).
- • A member of excellence center for math and science education (2008-2010).
- • The academic manager for Obeikan riverdeep company for e-learning (2007-2009).
- • A member of the national league for teacher preparing in ministry of education (2006-2007).
- • A member of national league for mathematics in ministry of education (2005-2006).
- • A trainer in international mathematical Olympiad (2003-present).
- • A reviewer, writer and trainer in Qyias (2003-present).
- • The head of math. Dep. at Teacher College in King Saud University (2002-2010).

EXPERIENCES

PARTICIPATION

- Talk at Lattice Theory Conference , Nashville TN USA (2001).
- Math Con. In summer in CO, USA (2000) (attendance).
- Development Committee of math curriculums at Teachers Colleges in the Ministry of Education (2003).
- Interview and recruitment Committee with new faculty members for Teachers Colleges in the Ministry of Education(2003-2007).
- Olympiad Committee for the Saudi team(2003-2008).
- Contests committee in KACST.
- Official Reviewer for Mathematical European Society (ZentralBlatt Journals).
- Talks in several conferences in USA, UK, Europe, Malaysia and China.
-Evaluating student performance in Little Khawarizmi competitions

TRAINING

I have attended so many workshops in self developments, math. Olympiad and math teaching.

I have given tens of training sessions, some of which are:

~   Problem solving strategies.

~   Math. Olympiad.

~   Math. Communication.

~   Logic and proof methods.

~   The new curriculum in math(McGrawHill series)

~   How to teach the new books in Saudi curriculum.

~   How to prepare for Qyias exam.

~   Preparing creative exams.

-    Probability and Statistics.

WRITING

- o I have written and translated about ten books, some of which are outside mathematics.
- o I also wrote some poems in Arabic.
- o Tens of articles and papers were published under my name in mathematics and different issues.

PAPERS- CONTINUED

- New Results on Harmonious Labeling, J. CONCRETE AND APPLICABLE MATHEMATICS, VOL. 12, NO.'S 3-4, 257-271, (2014),USA.
- On Prime Cordial Labeling of Graphs, Kyungpook Mathematical Journal,Korea,(2014).
- Splitting Groups with Basis Property, Chinese Journal of Mathematics,Volume 2014, Article ID 950572, China(2014).
- Windowed Fourier Frames to Approximate Two-Point Boundary Value Problems (with S. Bhowmik), Abstract and Applied Analysis, Volume 2015, Article ID 153010,(2015).
- Numerical Approximation of an Elastic Wave Model (with S. Bhowmik), Differ. Equ. Dyn. Syst., DOI 10.1007/s12591-015-0254-x,(2015).
- Numerical Simulation for Mathematical Model of the Hepatitis C with Different Types of Virus Genome Using Legendre Spectral Collocation Method (with M. Khader), journal of Computational and Theoretical Nanoscience, Vol. 12, 1–6, (2015).
- Geometric lattices of subgroups and exchange property, Lobachevskii J. Math. 36, No. 1, 76-78 (2015).
- Coefficients Estimates of the Class of Biunivalent Functions (with P. Goswami), Journal of Function Spaces, Volume 2016, Article ID 3454763 (2016).
- Implementation of Legendre-spectral-collocation method for solving the fractional Logistic di_erential equation, to appear.
- On Prime Cordial Labeling of Graphs, KYUNGPOOK Math. J. 56(2016), 41-46.

PAPERS

- On the Brauer Monoid of S3, Lobachevskii Journal of Mathematics (Volume 14, pp. 3-16).2004.Russia
- "On weak Crossed Products, Frobenius Algebras, and the Weak Bruhat Ordering, J. of Algebra (287 (2005) 88-102)).USA
- Various Results on Graph Labelings, Congressus Numerantium, (176(2005), 11-24).Canada.
- Inverse of Frobenius Graphs and Flexibility, KYUNGPOOK Math. Jour. (45 (2005) 561-570).S. Korea.
- Sharper Bounds for Zeros of Polynomials – (with M. Alhawary), Journal of Institute of Math. & Comp. Sciences (Vo1 19,No2, (2006) 133-140).India.
- On the Brauer Monoids, International Journal of Algebra, Vol. 2, no. 5, 223 -238), (2008), Bulgaria.
- Basis Property Conditions on Some Groups, International Journal of Mathematics and Computer Science, 3, No3, 1-11, (2008), Lebanon.
- Matroid Groups and Basis Property (with F. Alresini), International Journal of Algebra, Vol. 4, no. 11, 535 -540, (2010), Bulgaria.
- Minimal Finite Simple Groups without The Basis Property, Pioneer Journal of Algebra, Number Theory and its Applications, V2, No1, 1-11, (2011), India.
- Completely Simple Semigroup with Basis Property, J. Semigroup Theory and Appl. 2013, 1-10 (2013), UK.
- Multi-Presheaves and Multi-Sheaves Constructions, (with E. Solouma), Global Journal of Science Frontier Research, Math. and Decision Sci. Vol. 13 iss. 1, 39-54, (2013),USA.
- Strictly Target for Multi-valued Spectrum over Local Monoid (with E. Solouma), Canadian Journal on Computing in Mathematics Vol. 4 No. 1,81-87,(2013),Canada.

BOOKS

REC membership

I am a member of the research ethics committee In Al Imam Mohammad Ibn Saus Islamic University since 2015.

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1. Fundamental Concepts of Mathematics (Book in Arabic with Dr. alsekhawi), Al-rushd Bookstore for Publication, 2002.

2. Group Theory (Book in Arabic with Dr. Alkadhi), Al-rushd Bookstore for Publication, 2004.

3. Naïve Set Theory (translated into Arabic) – Imam Aldawa for Publication, 2005.

4. Preparatory Problems for math Olympiad – Alhumaidhi publication,2010.

5. Advanced Euclidean Geometry- (translated into Arabic) –King Saud University Publishing, 2012.

6. Introduction to Group Representation (with Dr. Alkhalaf) – to appear.

7. Introduction to Inequalities(translated into Arabic), to appear.