

Curriculum Vitae

Personal details:

Name: Mamoon Ali Hamad Ahmed
Nationality: Jordan / Permanent resident of Canada
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Current Professional Position:

Associate Professor of Mathematics, Princess Sumaya University for Technology, Jordan.

Qualifications:

- **Ph.D. 2008**, School of Mathematical and Physical sciences, the University of Newcastle, Australia.
- **MSc. 2004**, School of Mathematical and Physical Sciences, the University of Newcastle, Australia.
- **B.Sc. 1998**, Department of Mathematics, Yarmouk University, Jordan.

Languages:

Arabic (native) and English (with outstanding skills).

Skills and Profile:

- Competent in computer applications including, word-processing, blackboard as well as Latex.
- Excellent interpersonal and communication skills at all levels of work.
- Excellent command and articulation of the English language.
- Enthusiastic and keen to increase experience and develop new theories.

Teaching and Administration Experience:

1. **September 2019-Present**, Associate Professor, Princess Sumaya University for Technology, Jordan.
2. **September 2018-August 2019**, visiting Associate Professor, Higher colleges of Technology, UAE.
3. **September 2018-September 2019**, Deputy Dean for Engineering, Princess Sumaya University for Technology, Jordan.
4. **June 2018-September 2018**, Acting Dean for Engineering, Princess Sumaya University for Technology, Jordan.
5. **September 2017-September 2018**, Assistant Dean for Engineering, Princess Sumaya University for Technology, Jordan.
6. **July 2018-Present**, Associate Professor, Department of Basic Sciences, Princess Sumaya University for Technology, Jordan.
7. **September 2014- July 2018**, Assistant Professor, Department of Basic sciences, Princess Sumaya University for Technology, Jordan.
8. **October 2013-July 2014**, Assistant Professor, Department of Mathematics, King Faisal University, Saudi Arabia.
9. **September 2012-August 2013**, visiting Assistant Professor, Department of Mathematics, Statistics and Physics, Qatar University, Qatar.
10. **July 2008-August 2012**, Assistant Professor, Department of Mathematics and Statistics, Al-Hussein Bin Talal University, Jordan.
11. **September 2009-September 2010**, Chair of the Mathematics and Statistics Department, Al-Hussein Bin Talal University.
12. **June 2003-July 2007**, teaching assistant, Department of Mathematics, the University of Newcastle, Australia.

Committee Service:

- Students' disciplinary Committee, Princess Sumaya University for Technology, Mar 2015-Sep 2018.
- School of Engineering council secretary, Sep 2016 – Sep 2018.
- School of Engineering ABET accreditation committee secretary, Sep 2017 – Present.
- Admission and Registration Deanship council member, Sep 2017 – Present.
- Head of the "Students' disciplinary Committee" in the School of Engineering, Princess Sumaya University for Technology, Sep 2017-- Present.
- Students' disciplinary Committee, Princess Sumaya University for Technology, Sep 2022-Present.

Areas of Research Interests:

- Dynamical Systems.
- Hecke Algebras.
- Graded rings and modules.
- Algebraic Graph Algebras.

Training courses and sessions:

- International Computer Driving License Workshop, 2000.
- TOEFL (test of English as a foreign language) session and Diploma in English for Academic purposes 2001-2002.
- Sessional teaching program workshop, the University of Newcastle, 2005.
- IELTS certificate in English language with overall score of 8.

Courses I Taught and Coordinated:

1. Elementary Mathematics, the University of Newcastle.
2. Mathematics for elementary school teachers, the University of Newcastle.
3. Calculus I, the University of Newcastle.
4. Calculus for Engineers, the University of Newcastle.
5. Calculus I, Al-Hussein Bin Talal University.
6. Calculus II, Al-Hussein Bin Talal University.
7. Calculus III, Al-Hussein Bin Talal University.
8. Mathematics for teachers, Al-Hussein Bin Talal University.
9. Linear Algebra, Al-Hussein Bin Talal University.
10. Ordinary differential Equations, Al-Hussein Bin Talal University.
11. Abstract algebra, Al-Hussein Bin Talal University.
12. Topology I, Al-Hussein Bin Talal University.
13. Calculus I, Qatar University.
14. Calculus II, Qatar University.
15. Elementary and Intermediate algebra, Qatar University.
16. Vector Calculus, King Faisal University.
17. Ordinary differential Equations, King Faisal University.
18. Calculus I, II, and III, PSUT.
19. Discrete Math I, PSUT.
20. Partial Differential Equations (Engineering Math II), PSUT.
21. Calculus for Business, PSUT.
22. Ordinary Differential Equations (Engineering Math I), PSUT.
23. Linear Algebra, PSUT.
24. Calculus II, Higher Colleges of Technology.
25. Differential Equations, Higher Colleges of Technology.
26. Intermediate algebra, Higher Colleges of Technology.

Awards:

- An honor certificate from Yarmouk University for being the first rank in the academic year 1997-1998.
- Special University PhD Scholarship, the University of Newcastle, Australia 2006.
- Talk prize from the “2010 Annual Canadian Operator Algebra Symposium”.
- Mobility award in the 3rd cohort of PEACE II under the Erasmus Mundus to carry out academic staff stay for one month at Universidade de Santiago de Compostela, Jan 20, 2017 – Feb 21, 2017.

Workshops and conferences:

- Summer mathematics school held at Australian National University, Canberra, February 2-18, 2005.
- Summer mathematics school held at the University of Newcastle, on “C*-algebras and their crossed products”, 2006.
- The “2010 Annual Canadian Operator Algebra Symposium”, June 2010, UNB, Canada.
- The 23rd conference on Applied and Industrial Mathematics CAIM 2015, September 2015, The University of Suceava, Romania.
- The 24th conference on Applied and Industrial Mathematics CAIM 2016, September 2015, The University of Craiova, Romania.
- The 25th conference on applied and industrial mathematics, Iasi, Romania, September 14-17, 2017.
- The 42nd SIAM Southeastern Atlantic Sectional conference, North Carolina, US, March 8-11, 2018.
- The Eleventh IMACS International Conference on Nonlinear Equations, Georgia, US, April 17 - 19, 2019.
- Georgian Mathematical Union XII Annual International Conference, Georgia, August 19-September 3, 2022.

Publications:

1. M. A. Ahmed and A. J. Pryde, Semigroup crossed products and the Toeplitz algebras of lattice-ordered groups, J. Math. Anal. Appl. 364 (2010) 498-509.
2. Mamoon A. Ahmed, “The Hecke Algebra $H(PQ,PZ)$ arising in number theory”, Int. J. Pure Appl. Math. 107, No. 3 (2016) 723-748.
3. M. Ahmed and F. Moh’d. “Group graded types of Bezout Modules”, Commun. Korean Math. Soc. 32 (2017), No. 3, pp. 523–534.

4. Mamoon Ahmed and Fida Moh'd, "The Hecke algebra $H(PQ; PZ)$ and its relation to the crossed product $H(PQ+ ; PZ) \times \{-1,1\}$ ", Italian Journal of Pure and Applied Mathematics, 39 (2018), pp. 569-578.
5. F. Moh'd, M. Refai and M. Ahmed, "On the structure of augmented graded rings", JP Journal of Algebra, Number theory and applications, 40, No. 3, pp. 377-395.
6. M. Ahmed, "C*-algebras generated by isometries and true representations", Boletim da Sociedade de Matematica, V. 35, 5, 215-232.
7. M. Ahmed, "Commutator ideals in C*-crossed products by hereditary subsemigroups", Ann. Funct. Anal. 10 (3) 370-380, (2020).
8. M. Ahmed, "The ideal structure of C*-algebras related to lattice-ordered groups", Ann. Funct. Anal. 13, 44 (2022).
9. F. Moh'd and M. Ahmed, "Simple-intersection graphs of Rings", AIMS Mathematics, Volume 8, Issue 1, 1040-1045, 2023.
10. M. Ahmed, "Amenable Quasi-lattice Ordered Groups and True Representations", Boletim da Sociedade de Matematica, Volume 41, 2023.
11. F. Moh'd, M. Ahmed and M. Refai, "Flexible modules and graded rings", Boletim da Sociedade de Matematica, Volume 41, 2023.
12. M. Ahmed and F. Moh'd, "A new intersection-graph type for modules", Submitted.

Referees:

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