



CURRICULUM VITAE

Name and Surname: Hüseyin Aydın
Academic Title: Professor Dr.
Work Address: Biruni Üniversitesi Eğitim Fakültesi Merkezefendi Mahallesi G/75 Sk. No: 1-13 Zeytinburnu/İstanbul
Email: haydin@biruni.edu.tr
Foreign Languages Known (Score and Year): English, C1 Advanced, 1993
Area of Expertise: Natural Sciences

Degree	Department/Program	University	Year
Doctorate			1991
Master's Degree	MATEMATİK BÖLÜMÜ	Atatürk University	1986
Bachelor's Degree	MATEMATİK BÖLÜMÜ	Atatürk University	1984

Master's Thesis Title (abstract attached) and Thesis Supervisor(s):

Polinom Halkaları

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Recurrence relations in finite nilpotent groups

Position Title	Workplace	Year
Professor Dr.	Biruni University	2019-Continues
Professor Dr.	Atatürk University	2001-2018
Associate Professor	Atatürk University	1995-2001
Assistant Professor	Atatürk University	1992-1995
Research Assistant	Atatürk University	1984-1992

Supervised Master's Theses:

1. Asal sayıların şifreleme teorisindeki uygulamaları (2015)
2. Simetrik ve asimetric kripto sistemler (2013)
3. Periyodik gruplar ile abelyen ve nilpotent gruplar arasındaki ilişkiler (2000)
4. Altgrup temsilleri ve yan küme hesaplamaları (1998)
5. Fibonacci sayılar ve fibonacci grupları (1997)

Supervised Doctoral Theses/Proficiency Studies in Arts:

1. Ontoloji haritalamada iki parçalı (Bipartite) çizge tabanlı yaklaşım (2011)
 2. Dunwoody parametreleri ve devirli temsillenen gruplar (2004)
 3. Devirli temsiller ve devirli olarak temsil edilmiş gruplar (2002)
 4. Sonlu gruplarda 2-basamak Fibonacci dizileri (2002)
 5. Sonlu nilpotent gruplarda 3-basamak Fibonacci dizileri (2002)
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Administrative Duties:

1. Vice Dean - Biruni University (2019 - Continues)
 2. Head of Department - Biruni University (2019 - Continues)
 3. Dean - Erzurum Technical University (2011 - 2017)
 4. Head of Department - Atatürk University (1998 - 2011)
 5. Head of Main Science/Science Department - Atatürk University (1998 - 2002)
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PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1.** Seçer A., Bayram M., Ozdemir N., Onder I., Esen H., Cinar M., Aydın H., "Nonlinear complex generalized zakharov dynamical system inconformal sense utilizing new kudryashov method", *Physica Scripta*, vol. 99, no. 2, 2024.
- A2.** Ozisik M., Seçer A., Bayram M., Aydın H., "An encyclopedia of Kudryashov's integrability approaches applicable to optoelectronic devices", *Optik*, vol. 265, 2022.
- A3.** Ozdemir N., Esen H., Seçer A., Bayram M., Sulaiman T. A., Yusuf A., Aydın H., "Optical solitons and other solutions to the Radhakrishnan-Kundu-Lakshmanan equation", *Optik*, vol. 242, 2021.
- A4.** Cinar M., Onder I., Seçer A., Yusuf A., Abdulkadir Sulaiman T., Bayram M., Aydın H., "The analytical solutions of Zoomeron equation via extended rational sin-cos and sinh-cosh methods", *Physica Scripta*, vol. 96, no. 9, 2021.
- A5.** Ankaralıoğlu N., Aydın H., Gültekin I., "Computation of abstract groups $S((d + 1)/2, d)$ and torus knots $K(d, 2)$ ", *Applied Mathematics and Computation*, vol. 167, no. 1, pp. 695-710, 2005.
- A6.** Aydın H., Gultekyun I., Mulazzani M., "Torus knots and Dunwoody manifolds", *Siberian Mathematical Journal*, vol. 45, no. 1, pp. 1-6, 2004.
- A7.** Özkan E., Aydın H., Dikici R., "3-step Fibonacci series modulo m", *Applied Mathematics and Computation*, vol. 143, no. 1, pp. 165-172, 2003.
- A8.** Özkan E., Aydın H., Dikici R., "Applications of Fibonacci sequences in a finite nilpotent group", *Applied Mathematics and Computation*, vol. 141, pp. 565-578, 2003.
- A9.** Karaduman E., Aydın H., "General 2-step Fibonacci sequences in nilpotent groups of exponent p and nilpotency class 4", *Applied Mathematics and Computation*, vol. 141, pp. 491-497, 2003.
- A10.** Aydın H., Smith G. C., "Finite p-Quotients of Some Cyclically Presented Groups", *Journal of the London Mathematical Society*, vol. 49, pp. 83-92, 1994.

D. Articles published in national peer-reviewed journals:

- D1.** Cinar M., Onder I., Seçer A., Yusuf A., Sulaiman T. A., Bayram M., Aydın H., "Soliton Solutions of $(2 + 1)$ Dimensional Heisenberg Ferromagnetic Spin Equation by the Extended Rational sine- cosine and sinh- cosh Method", *International Journal of Applied and Computational Mathematics*, 2021.
- D2.** Karaduman E., Aydın H., "k-nacci sequences in some special groups of finite order", *Mathematical and Computer Modelling*, vol. 50, pp. 53-58, 2009.
- D3.** Karaduman E., Aydın H., "On the periods of 2-step general Fibonacci sequences in dihedral groups", *Matematicki Vesnik*, vol. 58, 2006.
- D4.** Karaduman E., Aydın H., "On the relationship between the recurrences in nilpotent groups and the binomial formula", *Indian Journal of Pure and Applied Mathematics*, vol. 35, no. 9, 2004.
- D5.** Aydın H., Dikici R., "General Fibonacci sequences in finite groups", *Fibonacci Quarterly*, 1998.