

# NESRİN TUTAŞ

## PROF.

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Matematik Bölümü,07058 Antalya/Türkiye

### International Researcher IDs

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Publons / Web Of Science ResearcherID: C-2807-2016

Yoksis Researcher ID: 128282



## Education

Post Doctorate

2004 - 2004

Universitaet Duisburg Essen, Matematik, Cebir, Germany

Doctorate

1996 - 2001

Akdeniz University, Faculty Of Science, Department of Mathematics, Turkey

Postgraduate

1994 - 1996

Akdeniz University, Faculty Of Science, Department of Mathematics, Turkey

Undergraduate

1990 - 1994

Akdeniz University, Faculty Of Science, Department of Mathematics, Turkey

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Bir değişkenli cebirsel fonksiyon cisminin yarıyerel althalkalarının Weierstrass noktaları ve otomorfizmleri, Akdeniz University, Faculty of Science, Department of Mathematics, 2001

Postgraduate, Polinomlar halkasının otomorfizmleri, Akdeniz University, Faculty of Science, Department of Mathematics, 1996

## Academic Titles / Tasks

Professor

2022 - Continues

Akdeniz University, Faculty of Science, Department of Mathematics

Assistant Professor

2018 - 2022

Akdeniz University, Faculty of Science, Department of Mathematics

Assistant Professor  
2009 - 2018

Akdeniz University, Faculty of Science, Department of Mathematics

Lecturer  
2001 - 2009

Akdeniz University, Faculty of Science, Department of Mathematics

Research Assistant  
1994 - 2001

Akdeniz University, Faculty of Science, Department of Mathematics

## Supported Projects

1. TUTAŞ N., GÜMÜŞBAŞ N., ER N., Project Supported by Higher Education Institutions, Sayısal Semigruplar ve Tamsayı Parçalanışları Üzerine Araştırma, 2020 - 2022
2. TUTAŞ N., Project Supported by Higher Education Institutions, Euler-Seidel matrices over  $F_p$ , 2014 - 2016
3. Aker K., Tutaş N., Project Supported by Higher Education Institutions, Combinatorial Representation Theory, 2013 - 2014

## Scholarships

Euclid Algorithm, TUBITAK, 2012 - 2012

Algebraic Numbers and L-functions, TUBITAK, 2010 - 2010

TUBITAK-DFG Doktora sonrası araştırma Bursu, Other International Organizations, 2004 - 2004

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **NONLINEAR COMPLEXITY AND WEIERSTRASS SEMIGROUP OF TWO RATIONAL POINTS ON A HERMITIAN CURVE**  
Özbudak F., Tutaş N.  
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.61, no.5, pp.1161-1173, 2024 (SCI-Expanded)
2. **Nonlinear complexity from the Hermitian and the Suzuki function fields**  
Özbudak F., Tutaş N.  
APPLICABLE ALGEBRA IN ENGINEERING, COMMUNICATIONS AND COMPUTING, vol.34, pp.1-27, 2023 (SCI-Expanded)
3. **A decomposition of partitions and numerical sets**  
KARAKAŞ H. İ., TUTAŞ N.  
SEMIGROUP FORUM, vol.101, no.3, pp.704-715, 2020 (SCI-Expanded)
4. **A Decomposition of Arf Semigroups**  
GÜMÜŞBAŞ ÖZTÜRK N., TUTAŞ N.  
FILOMAT, vol.34, no.2, pp.491-498, 2020 (SCI-Expanded)
5. **Almost symmetric Arf partitions**  
GÜMÜŞBAŞ ÖZTÜRK N., TUTAŞ N., ER N.  
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.6, pp.2185-2198, 2020 (SCI-Expanded)
6. **On Partitions and Arf Semigroups**  
TUTAŞ N.  
OPEN MATHEMATICS, vol.17, pp.343-355, 2019 (SCI-Expanded)
7. **Young tableaux and Arf partitions**

- TUTAŞ N., Karakas H. I., Gumusbas N.  
 TURKISH JOURNAL OF MATHEMATICS, vol.43, no.1, pp.448-459, 2019 (SCI-Expanded)
8. **Extending self-orthogonal codes**  
 Bassa A., TUTAŞ N.  
 TURKISH JOURNAL OF MATHEMATICS, vol.43, no.5, pp.2177-2182, 2019 (SCI-Expanded)
  9. **Rational Schubert polynomials**  
 Aker K., TUTAŞ N.  
 TURKISH JOURNAL OF MATHEMATICS, vol.39, no.3, pp.439-452, 2015 (SCI-Expanded)
  10. **Euler-Seidel matrices over  $F_p$**   
 Tutas N.  
 TURKISH JOURNAL OF MATHEMATICS, vol.38, no.1, pp.16-24, 2014 (SCI-Expanded)
  11. **REMARKS ON THE GAP SET OF  $R = K$  plus  $C$**   
 Tutas N.  
 BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.47, no.2, pp.433-442, 2010 (SCI-Expanded)
  12. **A generalization of the Weierstrass semigroup**  
 Beelen P., Tutas N.  
 JOURNAL OF PURE AND APPLIED ALGEBRA, vol.207, no.2, pp.243-260, 2006 (SCI-Expanded)

### Articles Published in Other Journals

1. **Generalized perfect numerical semigroups**  
 Zmmo M., Tutaş N.  
 NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.30, no.1, pp.150-162, 2024 (ESCI)
2. **RESULTS ON THE EULER-SEIDEL MATRIX**  
 TUTAŞ N.  
 JP JOURNAL OF ALGEBRA NUMBER THEORY AND APPLICATIONS, vol.38, no.5, pp.431-456, 2016 (ESCI)
3. **On Weierstrass Points of Semilocal Subrings**  
 Tutaş N.  
 JP Journal of Algebra, Number Theory and Applications, vol.13, no.2, pp.121-235, 2009 (ESCI)

### Papers Published in Refereed Scientific Meetings

1. **Arf Parçalanışları Ve Bazı Özel Sınıfları**  
 Gümüşbaş Öztürk N., Tutaş N., Karakaş H. İ.  
 36. Ulusal Matematik Sempozyumu, Amasya, Turkey, 9 - 12 September 2024, pp.40
2. **ALMOST SYMMETRIC ARF  $C$ -SEMIGROUPS AND PARTITIONS**  
 Tutaş N., Gümüşbaş N., Karakaş H. İ.  
 International Meeting on Numerical Semigroups 2024, Jerez, Spain, 8 - 12 July 2024, pp.1
3. **Partitions and Arf semigroup**  
 Tutaş N.  
 DGKC-2019, Ankara, Turkey, 17 - 18 June 2019
4. **Addition Behaviour of an Arf Numerical Semigroup**  
 Tutaş N.  
 MICOPAM 2018, Antalya, Turkey, 26 - 29 September 2018, pp.45
5. **Young tableaux and Arf Semigroup**  
 Tutaş N.  
 XX.Antalya Algebra Days, İzmir, Turkey, 16 - 20 May 2018, pp.39
6. **Remarks on the Gap Set of  $R=K+C$**   
 Tutaş N.

Workshop on sequences, Codes and Curves, Antalya, Turkey, 25 - 29 September 2009, pp.1

7. **A Generalization of Weierstrass semigroup**  
Beelen P., Tutaş N.  
Antalya Algebra Days VIII, Antalya, Turkey, 17 - 21 May 2006, pp.53
8. **Weierstrass Semigroup kavramının bir genellemesi**  
Tutaş N.  
XVIII. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 5 - 08 September 2005, pp.80
9. **On generalization of Weierstrass Semigroup**  
Tutaş N., Beelen P.  
International Conference of Jangjeon Mathematical Society, Antalya, Turkey, 4 - 06 July 2005, pp.58-59
10. **Rational and Weierstrass points of curves of finite fields**  
Tutaş N.  
Antalya, Algebra Days-II, Antalya, Turkey, 17 - 21 May 2000, pp.15
11. **Generalized Weierstrass points**  
Tutaş N.  
XII. Ulusal Matematik Sempozyumu, Malatya, Turkey, 6 - 10 September 1999, pp.50
12. **Weierstrass points of rational and elliptic function fields**  
Tutaş N.  
I. Türk dünyası Matematik Sempozyumu, Elazığ, Turkey, 29 June - 02 July 1999, pp.32
13. **Weierstrass points of semilocal subrings of algebraic function fields of one variable in the complete intersection case**  
Tutaş N.  
Antalya Algebra Days-I, Antalya, Turkey, 19 - 23 May 1999, pp.12

## Other Publications

1. **Asal sayılar denizinde gezinti**  
TUTAŞ N.  
Other, pp.16-19, 1999

## Academic and Administrative Experience

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2017 - 2020	<b>Faculty Management Board Member</b>	Akdeniz University, Faculty of Science, Department of Mathematics
2005 - 2017	<b>Erasmus Program Institutional Coordinator</b>	Akdeniz University, Faculty of Science, Department of Mathematics

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## Courses

### Doctorate

- Danışmanlık, Doctorate, 2021 - 2022  
Cebirsel Eğriler II, Doctorate, 2019 - 2020  
Homolojik Cebir II, Doctorate, 2019 - 2020  
Seminer, Doctorate, 2019 - 2020  
Cebirsel Eğriler-I, Doctorate, 2019 - 2020  
Danışmanlık, Doctorate, 2018 - 2019

Cebirsel eğriler II, Doctorate, 2017 - 2018  
Halka teo. Seçme Konular, Doctorate, 2016 - 2017  
Cebirsel eğriler I, Doctorate, 2017 - 2018  
Cebirde seçme konular, Doctorate, 2016 - 2017  
Cebirsel Sayılar Teorisi, Doctorate, 2016 - 2017  
Cebirsel fonksiyonlar II, Doctorate, 2014 - 2015  
Cebirsel Fonksiyonlar I, Doctorate, 2014 - 2015  
Cebirsel Fonksiyonlar-II, Doctorate, 2013 - 2014  
Cebirsel Fonksiyonlar-I, Doctorate, 2013 - 2014

### **Postgraduate**

İleri Cebir-II, Postgraduate, 2020 - 2021  
Danışmanlık, Postgraduate, 2021 - 2022  
İleri Cebir-I, Postgraduate, 2020 - 2021  
Sayısal Yarı gruplar, Postgraduate, 2019 - 2020  
Cebir-II, Postgraduate, 2014 - 2015, 2013 - 2014  
Cebirsel Eğriler Giriş-II, Postgraduate, 2010 - 2011  
Cebirsel Eğrilere Giriş-I, Postgraduate, 2010 - 2011

### **Undergraduate**

Bitirme Çalışması II, Undergraduate, 2020 - 2021  
Bitirme Çalışması I, Undergraduate, 2021 - 2022  
Kodlama Teo. Giriş, Undergraduate, 2020 - 2021, 2017 - 2018, 2015 - 2016, 2014 - 2015  
Cebir-I (Sube-I), Undergraduate, 2021 - 2022  
Cebir-I (sube-2), Undergraduate, 2021 - 2022  
Cisim Gen. ve Galois Teorisi, Undergraduate, 2021 - 2022  
Kodlama Teo. Giriş, Undergraduate, 2019 - 2020  
Cisim Genş. ve Galois Teo ., Undergraduate, 2020 - 2021, 2019 - 2020  
Cebir-I, Undergraduate, 2020 - 2021, 2019 - 2020  
Bitirme çalışması, Undergraduate, 2019 - 2020  
Matematik I, Undergraduate, 2016 - 2017  
Sayılar Teorisi, Undergraduate, 2014 - 2015, 2006 - 2007  
Doğrusal Cebir-II, Undergraduate, 2013 - 2014  
Doğrusal Cebir-I, Undergraduate, 2013 - 2014  
Lineer cebir ve vektör analiz, Undergraduate, 2012 - 2013  
Cisim Genişlemeleri ve Galois Teorisi, Undergraduate, 2009 - 2010  
Matematik Tarihi, Undergraduate, 2010 - 2011  
Matematik-I, Undergraduate, 2009 - 2010  
Matematiğin Temelleri-I, Undergraduate, 2009 - 2010  
Matematiğin Temelleri-II, Undergraduate, 2008 - 2009  
Analiz-II, Undergraduate, 2006 - 2007  
Analiz-I, Undergraduate, 2006 - 2007  
Halka ve Modül Teorisi, Undergraduate, 2006 - 2007

### **Supervised Theses**

Tutaş N., Schubert Polinomları, Postgraduate, E.Çelikoğlu(Student), 2021  
Tutaş N., Lie cebirleri ve Sınıfları, Postgraduate, M.Zmmo(Student), 2017  
TUTAŞ N., Cebirsel fonksiyon cismi kulelerinde Weierstrass Semigrup, Postgraduate, N.Gümüşbaş(Student), 2016  
Tutaş N., Arf semigrup ve cebirsel eğrilere uygulamaları, Postgraduate, D.Dede(Student), 2013

## Scientific Consultations

TÜBİTAK, Project Consultancy, Akdeniz University, Faculty Of Science, Department of Mathematics, Turkey, 2019 - 2019

## Tasks In Event Organizations

Tutaş N., Antalya Algebra Days XVI , Scientific Congress, Antalya, Turkey, Mayıs 2014

Tutaş N., Euclid Algorithm, Workshop Organization, İzmir, Turkey, Şubat 2012

Tutaş N., Demazure Characters, Workshop Organization, Antalya, Turkey, Şubat 2012

Tutaş N., Algebraic Functions and Codes, Workshop Organization, İstanbul, Turkey, Aralık 2010

Tutaş N., Algebraic Numbers and L-functions,, Workshop Organization, Antalya, Turkey, Eylül 2010

## Metrics

Publication: 31

Citation (WoS): 46

Citation (Scopus): 42

H-Index (WoS): 3

H-Index (Scopus): 3

## Congress and Symposium Activities

International Meeting on Numerical Semigroups 2024, Invited Speaker, Jerez, Spain, 2024

MICOPAM 2018,, Session Moderator, Antalya, Turkey, 2018

## Research Areas

Mathematics, Field Theory and Polynomials, Number Theory, Natural Sciences