







Assist. Prof. Dr. MERVE BULUT YILGÖR

Mahmutbey Technology Campus
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Interview Hours: Pazartesi - 13:00 - 14:00
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JGD-8092-2023 
53650 

EDUCATIONAL INFORMATION

Degree	University	Department	Year(s)
Doctoral Degree	Yildiz Technical University	Mathematics Department	2013 - 2020
Master's Degree	Yildiz Technical University	Mathematics Department	2011 - 2013
Bachelor's Degree	Yildiz Technical University	Mathematics Department	2007 - 2011

RESEARCH AREAS

Algebraic Coding Theory, Cyclic codes, DNA Codes

ACADEMIC DUTIES

Duty	University	Area	Year(s)
Doctor Faculty Member	Altinbas University	Basic Sciences Department	2020 -
Research Assistant	Yıldız Technical University	Mathematics Department	2014 - 2020

ADMINISTRATIVE DUTIES

Duty	University	Year(s)
Vice Chair of Basic Sciences Department	Altinbas University	2020 -
Examination Commission Membership	Yıldız Technical University	2018 - 2019

ACADEMIC AND PROFESSIONAL MEMBERSHIPS

Organisation	Membership	Year(s)
Mathematical Reviews (MathSciNet)	Reviewer	2026 -
American Mathematical Society (AMS)	Reviewer	2026 -

NON-UNIVERSITY EXPERIENCE

Country	Organisation	Duty	Year(s)
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BOOKS

ARTICLES

Reversible codes and applications to DNA codes over $F_{4^{2t}}[u]/(u^2-1)$

Alsuraiheed Turki, ÖZTAŞ ELİF SEGAH, Ali Shakir, BULUT YILGÖR MERVE
American Institute of Mathematical Sciences (AIMS), 2023

[International](#) DOI: 10.3934/math.20231421

A novel method for determining the non-CDS region by using error-correcting codes

ÖZTAŞ ELİF SEGAH, BULUT YILGÖR MERVE

Journal of Engineering Technology and Applied Science, 2022

[International](#) DOI: 10.30931/jetas.1192924

ARTICLES

Cyclic codes over $\mathbb{F}_2 + u\mathbb{F}_2 + v\mathbb{F}_2 + v^2\mathbb{F}_2$ with respect to the homogeneous weight and their applications to DNA codes

BULUT YILGÖR MERVE, GÜRSOY FATMANUR, ÖZTAŞ ELİF SEGAH, DEMİRKALE FATİH

Applicable Algebra in Engineering, Communication and Computing, 2020

[International](#) DOI: 10.1007/s00200-020-00416-0

ON PERFECT CODES IN THE LEE-ROSENBLOOM-TSFASMAN-JAIN METRIC

BULUT YILGÖR MERVE, DEMİRKALE FATİH

Sigma Journal of Engineering and Natural Sciences, 2019

[International](#)

Cyclic codes over $F_2[u,v,w]/(u^2=v^2, uv=0, w^2=w)$ and its applications

Merve BULUT YILGÖR

Aims Mathematics, 2025

[International](#) DOI: 10.3934/math.20251249

DNA Codes over a Non-chain Ring

Merve BULUT YILGÖR

Journal of Engineering Technology and Applied Sciences, 2026

[International](#) DOI: 10.30931/jetas.1868053

PROCEEDINGS

Detection of NON-CDS Region Using Error-Correcting Codes

BULUT YILGÖR MERVE, ÖZTAŞ ELİF SEGAH

International Congress on Fundemantel and Applied Science, 2022

[International](#)

DETECTION OF NON-CDS REGION USING ERROR-CORRECTING CODES

BULUT YILGÖR MERVE, ÖZTAŞ ELİF SEGAH

9th International Congress on Fundamental and Applied Sciences (ICFAS2022), 2022

[International](#)

An Application On Dna Codes

BULUT YILGÖR MERVE, ÖZTAŞ ELİF SEGAH, DEMİRKALE FATİH

International Congress on Fundamental and Applied Sciences (ICFAS2021), 2021

[International](#)

An Application on DNA Codes

BULUT YILGÖR MERVE, ÖZTAŞ ELİF SEGAH, DEMİRKALE FATİH

International Congress on Fundemantel and Applied Science, 2021

[International](#)

Cyclic codes over a special non-chain ring with respect to the homogeneous weight

BULUT YILGÖR MERVE, ÖZTAŞ ELİF SEGAH, DEMİRKALE FATİH

International Conference on Mathematical Advences and Applications ICOMAA 2019, 2019

[International](#)

Some DNA codes over F_2

ÖZTAŞ ELİF SEGAH, BULUT YILGÖR MERVE, GÜRSOY FATMANUR, DEMİRKALE FATİH

6th International Congress on Fundamental and Applied Sciences (ICFAS2019), 2019

[International](#)

Some properties of m -spotty Rosenbloom-Tsfasman spaces

BULUT YILGÖR MERVE, ŞİAP VEDAT

International Congress on Fundamental and Applied Sciences, 2016

[International](#)

PROCEEDINGS

A NOTE ON M-SPOTTY ROSENBLIOM-TSFASMAN SPACES

BULUT YILGÖR MERVE, ŞİAP VEDAT

The Second International Conference on Mathematics and Statistics, 2015

International

On perfect codes in the Lee-Rosenbloom-Tsfasman-Jain metric

BULUT YILGÖR MERVE, ŞİAP VEDAT

WESTERN BALKAN CONFERENCE OF MATHEMATICAL SCIENCES, 2013

International

A novel approach to constacyclic codes over a non-chain ring

Merve BULUT YILGÖR

10th International Conference on Multidicipliary Scientific Studies,

International

CONSTRUCTION OF CYCLIC CODES OVER A NON-CHAIN RING

Merve BULUT YILGÖR

12th International Congress on Fundamental and Applied Sciences 2025 (ICFAS2025),

International

LCD codes over a non-chain ring

Merve BULUT YILGÖR

15. ULUSLARARASI ZEUGMA BİLİMSEL ARAŞTIRMALAR KONGRESİ,

International

Skew cyclic codes over a non-chain ring

Merve BULUT YILGÖR

2nd International Congress on Natural Sciences and Applied Mathematics,

International

A novel approach to constacyclic codes over a non-chain ring

Merve BULUT YILGÖR

10th International Conference on Multidicipliary Scientific Studies,

International

PROJECTS

Cebirsel kodlar ile Covid-19 gen dizilerinin incelenmesi (Executive)

Scientific research project supported by Higher Education Institutions, 21.01.2021 - 15.11.2022

National Completed

Bazı Sonlu Halkalar Üzerinde Tanımlı Ters Sıralı Tamlama Kodlar Ve DNA ya Uygulamaları (Scholar)

Tübitak 1001, 09.12.2013 - 09.12.2015

National Completed

Cisim Ve Halkalar Üzerinde Tanımlı 2 Boyutlu Hücresel Dönüşümlerin Cebirsel Yapıları Ve Davranışları (Scholar)

Tübitak 1001, 12.01.2012 - 12.02.2013

National Completed

Bazı Özel Sınıflara ait Kodların Sınıflandırılması (Researcher)

Scientific research project supported by Higher Education Institutions, 10.06.2015 - 06.02.2020

National Completed

THESIS SUPERVISION

Simulation by matlab in renewable energy systems and devices

HALAH KAREEM ATTALIA ATTALLA

2023 Master's Degree

THESIS SUPERVISION

Calibration optimization of strapping table data in horizontal fuel storage tanks using 3D laser scanning

AHMED JASIM MOHAMMED ALISHAQEE

2023 Master's Degree

Developing scalable data warehouse with big data requirements

NADA MUAAD ABDULLAH ABDULLAH

2023 Master's Degree

Analysis and detection of cyberattacks using encryption techniques on cloud computing

AHMED HASAN ABDULWAHHAB AL-SAEDI

2022 Master's Degree

An efficient application based on deep learning techniques for brain MRI recognition

ABDULLAH IBRAHIM ABDULLAH

2022 Master's Degree

COURSES

Course Type	Course Code	Course Name
Bachelor's Degree	MATH131	MATH FOR BUSINESS I
Bachelor's Degree	MATH132	MATH FOR BUSINESS II
Bachelor's Degree	MAT123	MİMARLIK İÇİN MATEMATİK I
Bachelor's Degree	MATH101	MATHEMATICS FOR SOCIAL SCIENCES I
Bachelor's Degree	MATH317	NUMERICAL ANALYSIS
Bachelor's Degree	MATH220	PROBABILITY AND STATISTICS
Bachelor's Degree	MATH125.1	MATHEMATICS FOR ARCHITECTURE I
Master's Degree	EBM500	MÜHENDİSLİK İÇİN İLERİ MATEMATİK
Bachelor's Degree	MATH155	MATHEMATICS FOR HEALTH SCIENCES
Master's Degree	CVE599	MASTER THESIS

PERSONAL INFORMATION

CONTACT INFORMATION

Interview Hours: Pazartesi - 13:00 - 14:00

Mahmutbey Technology Campus

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