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Билими

1	Бакалавр	1991 - 1995	Математика, Ататүрк университети
2	Магистр	1995 - 1998	математика, Ататүрк университети
3	Ph.D	1998 - 2002	математика, Ататүрк университети

Тил билүү деңгээли

#	Тил	Угуп түшүнүү	Окуп түшүнүү	Өз ара сүйлөшүү	Оозеки түшүндүрүү	Жазуу
1	Англисче	B1	B1	B1	B1	B1

A1: Beginner **A2:** Elementary **B1:** Pre-Intermediate **B2:** Intermediate **C1:** Upper-Intermediate **C2:** Advanced

Диссертациялары

1	Магистрдик диссертация	1998	Grobner Кээ бир жана Тиркемелер математика, Ататүрк университети
2	Доктордук диссертация	2002	Дифференциалдык-алгебралык теңдемелердин сандык чечимдери математика, Ататүрк университети

Илимий багыттары

Математика, Колдонмо математика

Илимий даражалары

1	Др.	2002	математика, Ататүрк университети
2	Доц.М.А.Др.	2002	математика, Ататүрк университети

3	Доц.Др.	2010	математика, Ататүрк университети
4	Проф.Др.	2016	математика, Ататүрк университети

Берген сабактары

UME-203 Дифференциалдык теңдемелер i

UME-301 Айрым туундулуу теңдемелер i

LEE-610 Семинар 1

LEE-612 ?

MAT-627 Сызыктуу эмес дифференц-ык теңдем-ин тандалма темалары

LEE-800 Магистрдик диссертация

YET-900 Адистик сынак

MAT-900 Доктордук диссертация

MAT-521 Дифференциалдык теңдемелердин тереңдетилген курсу

MAT-614 Тереңдетилген сандык анализ

UME-401 Математикалык моделдөө

MAT-502 Семинар

MAT-802 Технологиялык практика

UME-101 Математикалык анализ i

UME-204 Дифференциалдык теңдемелер ii

UME-207 Каржы математикасы

UME-302 Айрым туундулуу теңдемелер ii

UME-330 Айрым туундулуу дифферен-дык теңд-н чыгар-н сандык ыкма

MAT-407 Математикалык моделдөө

LEE-611 2 семинар

LEE-801 Илим изилдөө практикасы

MAT-332 Айрым туундулуу дифференциалдык теңдемелер ii

MAT-642 Чектелген элементтер ыкмасы

UME-234 Ыктымалдыктар теориясы жана математикалык статистика

UME-244 Ыктымалдыктар теориясы жана математикалык статистика

UME-407 Математикалык моделдую

UME-451 Квалификациялык бүтүрүү иши i

UME-452 Квалификациялык бүтүрүү иши ii

FBE-800 Магистрдик диссертация

MAT-500 Магистрдик диссертация

UME-332 Айрым туундулуу теңдемелер ii

UME-335 Сандык анализ i

UME-352 Колдонмо графтар теориясы

UME-416 Айрым туундулуу дифф.теңдемелерди сандык чыгаруу

MAT-234 Дифференциалдык теңдемелер ii

MAT-530 Интегралдык теңдемердин системалары

Административдик кызматтары

#	Кызматы	Бөлүм	Башталышы	Бүтүшү
1	Бөлүм башчысы	Колдонмо математика жана информатика бөлүмү	06.07.2023	-
2	ÖSYM башчысы	Студент тандоо жана жайгаштыруу борбору	19.09.2023	-

Жетекчилик кылган диссертация темалары

1	Магистр Ноориза Мырзабекова 2023 LAPLACE-PADE METODUYLA LINEER VE LINEER OLMAYAN DİFERANSİYEL-CEBRİSEL DENK.
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SCI, SCI-E, SSCI жана AHCI индекстүү журналдарда басылган макалалары

1. A.AYKUT, E.ÇELİK, İ.OKUMUŞ. (2025). Simple Two-Sided Convergence Method for a Special Boundary Value Problem with Retarded Argument. Axioms, 14(12), 867. DOI: <https://doi.org/10.3390/axioms14120867>. <https://www.mdpi.com/2075-1680/14/12/867>.
2. U.Demirbilek, H.Bulut, E.ÇELİK. (2025). New soliton solutions for a nonlinear complex hyperbolic Schrödinger dynamical equation with a truncated M-fractional derivative. Demonstratio Mathematica, 58(1), 20250174-. DOI: <https://doi.org/10.1515/dema-2025-0174> . <https://www.degruyterbrill.com/document/doi/10.1515/dema-2025-0174/html>.
3. E.Khodadadi, M.Karabacak, E.ÇELİK. (2025). Numerical Solutions of Fuzzy Linear Fractional Differential Equations With Laplace Transforms Under Caputo-Type H-Differentiability. Journal of Mathematics, Volume 2025(9998269), 15. DOI: 10.1155/jom/9998269. <https://www.webofscience.com/wos/woscc/full-record/WOS:001471406700001>.
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5. H.Bulut, U.Demirbilek, E.ÇELİK. (2025). Dynamical Soliton Solutions of $(2 + 1)$ -Dimensional Paraxial Wave and $(4 + 1)$ -Dimensional Fokas Wave Equations With Truncated M-Fractional

Derivative Using an Efficient Technique. Journal of Mathematics, Volume 2025(Article ID 6659392), 18. DOI: <https://doi.org/10.1155/jom/6659392>.

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6. E.ÇELİK. (2025). Travelling Wave Solutions of a Time Regularised Long Wave Equation Associated With the Korteweg-de Vries Equation in Fluid Dynamics. Advances in Mathematical Physics, Article ID 8619224(8619224), 6-16. DOI: 10.1155/admp/8619224. <https://www.webofscience.com/wos/woscc/full-record/WOS:001396427200001>.
7. N.Y.Aksoy, E.ÇELİK, M.Zengin. (2024). A Necessary Optimality Condition on the Control of a Charged Particle. Symmetry, Symmetry 2024(16), 637. DOI: 10.3390/sym16060637. <https://www.webofscience.com/wos/woscc/full-record/WOS:001255922900001>.
8. O.Taşbozan, E.ÇELİK, A.Kurt, L.Akinyemi. (2024). Investigation on the new exact solutions of generalized Rosenau-Kawahara-RLW equation with p-th order nonlinearity occurring in ocean engineering models. Applied Mathematics-A Journal of Chinese Universities, 39(4), 642-653. DOI: 10.1007/s11766-024-4631-5. <https://www.webofscience.com/wos/woscc/full-record/WOS:001376935300010>.
9. G.Butakın, E.PIŞKİN, E.ÇELİK. (2024). Blow up and global solutions of a fourth order parabolic equation with variable exponent logarithmic nonlinearity. Journal of Function Spaces, 2024(Article ID 2847533), 9 pages. DOI: 10.1155/jofs/2847533. <https://www.webofscience.com/wos/woscc/full-record/WOS:001379041200001>.
10. E.ÇELİK, F.Düşünceli. (2024). Fractional Approach for Diffusion Equations Arising From Oil Pollution Using the Fractional Natural Decomposition Method. International Journal of Quantum Chemistry, 125(1), 1-9. DOI: 10.1002/qua.27529. <https://www.webofscience.com/wos/woscc/full-record/WOS:001383130100001>.
11. S.Ş.Ş.KILIÇ, E.ÇELİK. (2024). Complex solutions to the higher-order nonlinear boussinesq type wave equation transform. Ricerche di Matematica (A Journal of Pure and Applied Mathematics), 73(4), 1793-1800. DOI: 10.1007/s11587-022-00698-1. <https://link.springer.com/article/10.1007/s11587-022-00698-1>.
12. A.Fidan, E.PIŞKİN, E.ÇELİK. (2024). Existence, Decay and Blow-up of Solutions for a Weighted m-Biharmonic Equation with Nonlinear Damping and Source Terms. Journal of Function Spaces, Volume 2024(ID 5866792), 1-8. DOI: 10.1155/2024/5866792. <https://www.webofscience.com/wos/woscc/full-record/WOS:001186130600001>.
13. A.O.Akdemir, s.Aslan, M.A.Dokuyucu, E.ÇELİK. (2023). Exponentially Convex Functions on the Coordinates and Novel Estimations via Riemann-Liouville Fractional Operator. Journal of functional spaces, 2023(ID4310880), 1-9. DOI: 10.1155/2023/4310880. <https://www.webofscience.com/wos/woscc/full-record/WOS:000965994100004>.
14. A.Aykut, E.ÇELİK. (2023). The Consecutive Substitution Method for Boundary Value Problems (BVPs) with Retarded Argument. JOURNAL OF APPLIED MATHEMATICS, 12 Apr 2023(ID3226604), 1-5. DOI: 10.1155/2023/3226604. <https://www.webofscience.com/wos/woscc/full-record/WOS:000974779000001>.
15. S.Ş.Ş.KILIÇ, E.ÇELİK, H.Bulut. (2023). Solitary wave solutions to some nonlinear conformable partial differential equations. Optical and Quantum Electronics, 55(-), 695. DOI: 10.1007/s11082-023-04983-7. -.
16. E.ÇELİK, R.Najafi, N.Uyanık. (2023). Invariant Solutions and Conservation Laws of the Time-Fractional Telegraph Equation. Advances in Mathematical Physics, 2023(Article ID 1294070), 1294070. DOI: <https://doi.org/10.1155/2023/1294070>. <https://www.webofscience.com/wos/woscc/full-record/WOS:001065031500001>.
17. N.YILMAZ, E.PIŞKİN, E.ÇELİK. (2023). Well-Posedness and Blow-Up of Solutions for a Variable Exponent Nonlinear Petrovsky Equation. Advances in Mathematical Physics, Volume 2023(Article ID 8866861), 8866861. DOI: 10.1155/2023/8866861. <https://www.webofscience.com/wos/woscc/full-record/WOS:001112438200001>.

18. N.Y.AKSOY, E.ÇELİK, M.ZENGİN. (2022). On optimal control of a charged particle in a varying electromagnetic field. WAVES IN RANDOM AND COMPLEX MEDIA, -(), -. DOI: 10.1080/17455030.2022.2142695.
<https://www.webofscience.com/wos/woscc/full-record/WOS:000881378000001>.
19. N.M.Lanbaran, E.ÇELİK, Ö.KOTAN. (2022). Using Fuzzy-Rough Subset Evaluation for Feature Selection and Naive Bayes to Classify the Parkinson's Disease. MISKOLC MATHEMATICAL NOTES, 23(2), 787-800. DOI: 10.18514/MMN.2022.3855. -.
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21. A.ENGİN, Y.SARAÇ, E.ÇELİK. (2022). ON OPTIMAL CONTROL OF THE INITIAL VELOCITY OF AN EULER-BERNOULLI BEAM SYSTEM. THERMAL SCIENCE, 22(2), 735-744. DOI: 10.2298/TSCI22S2735E.
<https://www.webofscience.com/wos/woscc/full-record/WOS:000921231700025>.
22. H.GÜNDÜZ, E.ÇELİK. (2022). H-infinity-NORM EVALUATION FOR A TRANSFER MATRIX VIA BISECTION ALGORITHM. THERMAL SCIENCE, 22(2), 745-751. DOI: 10.2298/TSCI22S2745G .
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Башка журналдарда басылган макалалары

1. A.K.Golmankhaneh, R.R.I.opez, I.M.Stamova, E.ÇELİK. (2025). Fractal complex analysis. Journal of Mathematical Modeling, 13(3), 675-684.
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3. D.Arsan, E.ÇELİK. (2025). A Robust Numerical Method For The Singularly Perturbed IntegroDifferential Equations . Gazi University Journal of Science, 38(1), 267-273. -.
4. E.ÇELİK, M.Karabacak, M.Z.Kaya. (2025). Solution of Fractional Order Diffusion Equations with Clique Neural Network. <https://mmnsa.researchcommons.org/journal/vol5/iss3/4/>, 5(3), 541-554. <https://mmnsa.researchcommons.org/journal/vol5/iss3/4/>.
5. E.ÇELİK, G.Oğuz. (2025). ASoft View on Lie Groups and Lie Hypergroups. Konuralp Journal of Mathematics, 13(2), 264-269.
<https://dergipark.org.tr/en/pub/konuralpjournalmath/issue/95329/1716684>.
6. E.İlhan, M.Yiğider, E.ÇELİK, H.Bulut. (2025). Some New Soliton Solutions of Time Fractional Resonant Davey-Stewartson Equations. Computational and Mathematical Methods, Volume 2025(Article ID 5529397), 9-.
<https://www.webofscience.com/wos/woscc/full-record/WOS:001445931400001>.
7. N.Mirzabekova, E.ÇELİK. (2024). The Analitical Solution of Linear and Non-Linear DifferentialAlgebraic Equations (DAEs) with Laplace-Padé Series Method . MANAS Journal of Engineering, 12(1), 129-134. <https://dergipark.org.tr/tr/pub/mjen/issue/85207>.
8. H.GÜNDÜZ, M.Karabacak, E.ÇELİK. (2024). A comparative view to H^∞ -norm of transfer functions of linear DAEs. An International Journal of Optimization and Control: Theories & Applications, 14(4), 346. -.
9. E.ÇELİK, İ.Okumuş. (2024). A Modified Key Generation Algorithm to Rebalanced-RSA and RPower-RSA. MANAS Journal of Engineering , 12(2), 192-197.
<https://dergipark.org.tr/en/pub/mjen/issue/89063>.
10. D.Arsan, E.ÇELİK. (2024). An approximate solution of singularly perturbed problem on uniform mesh. An International Journal of Optimization and Control: Theories &

- Applications, 14(1), 74-80. <https://ijocta.org/index.php/files/article/view/1414/446>.
11. H.GÜNERHAN, M.K.A.Kaabar, E.ÇELİK. (2023). Novel Analytical and Approximate-Analytical Methods for Solving the Nonlinear Fractional Smoking Mathematical Model. Sigma Journal of Engineering and Natural Sciences, 41(2), 331-343. DOI: 10.14744/sigma.2021.00073. <https://www.webofscience.com/wos/woscc/full-record/WOS:000983868500004>.
 12. N.Y.Aksoy, E.ÇELİK, M.E.Dadaş. (2023). The solvability of the optimal control problem for a nonlinear Schrödinger equation. An International Journal of Optimization and Control: Theories & Applications, 13(2), 269-276. -.
 13. T.YAZGAN, G.YEL, E.ÇELİK, H.BULUT. (2023). On Survey of the Some Wave Solutions of the Non-Linear Schrödinger Equation (NLSE) in Infinite Water Depth. Gazi Journal of Engineering Sciences, 36(2), 819-843. -.
 14. E.ÇELİK, N.YALÇIN. (2023). A new approach for the bigeometric newton method. MANAS Journal of Engineering , 11(2), 235-240 . <https://dergipark.org.tr/tr/pub/mjen/issue/81663/1372839>.
 15. E.ÇELİK, Ö.KOTAN. (2022). The Solution of Linear Volterra Integral Equation of the First Kind with Aboodh Transform. Journal of Abstract and Computational Mathematics, 7(1), 1-9. <file:///C:/Users/User/Downloads/JACM-2022-7-1.15580.pdf>.

Докладдары

1. E.ÇELİK, U.DEMİRBİLEK, H.Bulut. NEW SOLUTIONS FOR A NONLINEAR COMPLEX HYPERBOLIC SCHRODINGER DYNAMICAL EQUATION WITH A TRUNCATED M- FRACTIONAL. II. International Congress On Finance, Economy And Sustainable Policies, 2024. DOI: -. <https://icofesp.com>.
2. M.Z.KAYA, E.ÇELİK, M.KARABACAK. Solution of Fractional Order Partial Differential Equations with Hosoya Neural Network. The Eighth International Conference on Computational Mathematics and Engineering, 2024. DOI: -. <https://www.cmescongress.org>.
3. H.GÜNDÜZ, M.Karabacak, E.ÇELİK. The Computation of H-infinity Norm of Transfer Functions of Linear DAEs via Two-Step Method. The Eighth International Conference on Computational Mathematics and Engineering, 2024. DOI: -. <https://www.cmescongress.org>.
4. U.Demirbilek, E.ÇELİK, H.Bulut. Investigation of Exact Solutions in (2+1)-D Generalized Fifth-Order KdV in Nonlinear Optics. III. International Congress On Finance, Economy And Sustainable Policies (ICOFE, 2024. DOI: -. <https://icofesp.com/>.
5. G.Oğuz, E.ÇELİK. A soft view on lie groups and lie hypergroups. VI. Uluslararası Türk Dünyası Fen Bilimleri ve Mühendislik Kongresi(TURK-COSE 20, 2024. <https://www.ohu.edu.tr/turk-cose-en-2024>.
6. N.Mirzabekova, E.ÇELİK. The numerical solution of difficult nonlinear dae test problem with laplace-padé series method. VI. Uluslararası Türk Dünyası Fen Bilimleri ve Mühendislik Kongresi(TURK-COSE 20, 2024. <https://www.ohu.edu.tr/turk-cose-en-2024>.
7. G.Kaya, H.GÜNDÜZ, M.Karabacak, E.ÇELİK. Fractional order plant-herbivore dynamics: from stability to chaos control. VI. Uluslararası Türk Dünyası Fen Bilimleri ve Mühendislik Kongresi(TURK-COSE 20, 2024. <https://www.ohu.edu.tr/turk-cose-en-2024>.
8. H.Okumuş, M.Karabacak, E.ÇELİK. Improving artificial neural networks with wavelets. VI. Uluslararası Türk Dünyası Fen Bilimleri ve Mühendislik Kongresi(TURK-COSE 20, 2024. <https://www.ohu.edu.tr/turk-cose-en-2024>.
9. İ.Eyüpoğlu, M.Yiğider, E.ÇELİK. Investigation and mathematical modeling of dada arcs on the brain in male. VI. Uluslararası Türk Dünyası Fen Bilimleri ve Mühendislik Kongresi(TURK-COSE 20, 2024. <https://www.ohu.edu.tr/turk-cose-en-2024>.
10. E.ÇELİK, H.Gündüz, M.Karabacak. Computing of H_{∞} -Norm of Transfer Functions of DAEs by Extended Balanced Singular Perturbation. The Seventh International Conference on

- Computational Mathematics and Engineerin, 2023. <https://www.cmescongress.org/>.
11. E.ÇELİK, N.Mirzabekova. The Solution of Bonlinear Chemical Akzo Nobel Problem Modeled as Differential-Algebraic Equations(DAEs) with Laplace-Padé Series Method. The Seventh International Conference on Computational Mathematics and Engineerin, 2023. <https://www.cmescongress.org/>.
 12. E.ÇELİK, N.Y.Aksoy, M.Zengin. The Necessary Optimality Condition On a Control Problem fort the Schrödinder Equation. The Seventh International Conference on Computational Mathematics and Engineerin, 2023. <https://www.cmescongress.org/>.
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 14. E.ÇELİK, E.Ilhan, M.Yigider, H.Bulut. Some New Solutions of Time Fractional Resonant Daveys- Tewartson Equations,. The Seventh International Conference on Computational Mathematics and Engineerin, 2023. <https://www.cmescongress.org/>.
 15. E.ÇELİK, N.M.LANBARAN, M.YİĞİDER. Quantum fuzzy based on deep reinforcement method for optimization of energy management systems. 7th International Conference on Mathematics: An Istanbul Meeting for World Math, 2023. <https://icomath.com/?target=sayfalar&id=2>.
 16. E.ÇELİK, E.KHODADADI, M.KARABACAK. A New Score Function Based on Pythagorean Fuzzy Set to Multiple Criteria Group Decision-Making. I. International Congress On Finance, Economy And Sustainable Policies (ICOFESP, 2023. DOI: -. <https://www.kongreuzmani.com/site.html?https://icofesp.com>.
 17. H.BULUT, U.DEMİRBİLEK, E.ÇELİK. Investigation of solitary wave solutions of a nonlinear mathematical model. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. DOI: -. <https://www.ohu.edu.tr/turk-cose-en>.
 18. S.ESMER, E.ÇELİK. Ortaöğretim öğrencilerinin matematik dersine karşı tutumları üzerine bir araştırma. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. DOI: -. <https://www.ohu.edu.tr/turk-cose-en>.
 19. A.Irmak, E.ÇELİK, S.Ş.Ş.Kılıç. On Solving the Heat Equation Using the Jacobi Method . TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. DOI: -. <https://www.ohu.edu.tr/turk-cose-en>.
 20. H.G.Yıldız, H.Günerhan, E.ÇELİK. Analytical approximate solution of fractional order SIR epidemic model. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. <https://www.ohu.edu.tr/turk-cose-en>.
 21. N.Mirzabekova, E.ÇELİK. The numerical solution of higher order two point boundary value problems with Padé Series. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. <https://www.ohu.edu.tr/turk-cose-en>.
 22. N.Yalçın, E.ÇELİK. Newton's method in bigeometric analysis. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. <https://www.ohu.edu.tr/turk-cose-en>.
 23. M.Z.Kara, E.ÇELİK, M.Karabacak. Numerical solution of fractional order advection reaction diffusion equation with Hosoya neural network. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. <https://www.ohu.edu.tr/turk-cose-en>.
 24. F.Düşünceli, E.ÇELİK. Fractional approach for diffusion equations arising in oil pollution using the efficient scheme. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. <https://www.ohu.edu.tr/turk-cose-en>.
 25. S.Esmer, E.ÇELİK. A research on secondary students attitudes to mathematics course. TURK-COSE 2023 V. International Turkic World Congress on Science and Engineering, 2023. <https://www.ohu.edu.tr/turk-cose-en>.
 26. E.ÇELİK, H.Bulut, S.Ibrahim, T.A.Sulaiman, A.Yusuf. SOLUTIONS TO THE (N+1)-

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