

## **Dr. Gülsemay YİĞİT**

Altınbaş University  
School of Engineering and Natural Sciences  
Mahmutbey Dilmenler Caddesi, No:26, 34217  
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### **EDUCATION**

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- PhD (2012-2019) Yildiz Technical University, Department of Mathematical Engineering.
- MSc (2010-2012) Yildiz Technical University, Department of Mathematical Engineering.
- BSc (2006-2010) Eskisehir Osmangazi University, Department of Mathematics.

### **RESEARCH INTEREST**

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- Applied Mathematics, Numerical Analysis and Computational Methods.

### **POSITION**

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- 10/2013- Lecturer, Altınbaş University.

### **COURSES**

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- MATH 317-Numerical Analysis, Summer 2019, Instructor
- MAT 152-Calculus II, Spring 2019, Instructor
- MAT 126- Mathematics for Architecture II, Spring 2019, Instructor
- MATH 125- Mathematics for Architecture I, Fall 2017, Fall 2018, Instructor
- MATH 126- Mathematics for Architecture II, Spring 2018
- MATH 151- Calculus I, Fall 2017, Spring 2017, Summer 2016, Instructor
- MATH 152-Calculus II, Spring 2018, Instructor
- MATH 155-Mathematics for Health Sciences, Summer 2017, Summer 2018, Fall 2018, Instructor
- MATH 101- Mathematics for Social Sciences I, Summer 2015, Fall 2016, Instructor
- MATH 102- Mathematics for Social Sciences II, Summer 2016, Spring 2017, Instructor
- MATH 101- Mathematics for Social Sciences I, Fall 2016 Instructor
- MATH 151-Calculus I, Fall 2013, Spring 2013, Fall 2014, Spring 2014, Fall 2016 Course Assistant
- MATH 152-Calculus II, Spring 2014, Summer 2014, Spring 2015 Course Assistant
- MATH 101- Mathematics for Social Sciences I, Fall 2014, Fall 2015, Course Assistant
- MATH 102- Mathematics for Social Sciences II, Spring 2014, Spring 2015, Spring 2016, Course Assistant
- MATH 125- Mathematics for Architecture I, Fall 2014, Fall 2015, Course Assistant

- MATH 126- Mathematics for Architecture II, Spring 2014, Spring 2015, Spring 2016  
Course Assistant

## **PUBLICATIONS**

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- G. Yiğit and M. Bayram, “Chebyshev Differential Quadrature for Numerical Solutions of Third-and Fourth-Order Singular Perturbation Problems”, *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 1-8, 2019.
- G. Yiğit and M. Bayram, “Polynomial Based Differential Quadrature for Numerical Solutions of Kuramoto-Sivashinsky Equation”, *Thermal Science*, 23(1), S129-S137, 2019.
- Yigit, G., Sahin, A., Bayram, M., 2016. “Modeling of Vibration for Functionally Graded Beams”, *Open Mathematics*, 14, 661-672.

## **PROCEEDINGS**

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- G. Yiğit and M. Bayram, “Numerical Treatment of Linear and Nonlinear Diffusion Equations Based Differential Quadrature”, International Conference on Computational Methods in Applied Sciences (ICCMAS 2019), ISTANBUL, TURKEY, 12-16 July 2019, pp.138-143.
- G. Yiğit and M. Bayram, “Numerical Simulations of Kuramoto-Sivashinsky Equation by Chebyshev Based Differential Quadrature”, VI. Kadın Matematikçiler Derneği Çalıştayı, Konya, TURKEY, 26-28 April 2019, pp.36.
- G. Yiğit and M. Bayram, “Chebyshev Differential Quadrature for Quasilinear Hyperbolic Equations”, 7th International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2018), ISTANBUL, TURKEY, 20-24 June 2018, pp.82.
- G. Yiğit, Mustafa Bayram, “Polynomial Based Differential Quadrature for Numerical of Kuramoto-Sivashinsky Equation” International Conference on Applied Analysis and Mathematical Modeling (SciCADE 2017), University of Bath, 11-15 September 2017, Bath, United Kingdom, 2017.
- G. Yiğit, Mustafa Bayram, “Chebyshev Differential Quadrature for Advection Diffusion Equation” International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2017), İstanbul Gelişim University, 03-07 July 2017, İstanbul, Turkey, 2017.
- G. Yiğit, “Numerical Solutions for Nonlinear Advection Problems by Chebyshev Differential Quadrature”, International Conference on Mathematics and Engineering (ICOME 2017), ISTANBUL, TURKEY, 10-12 May 2017, pp.187.
- G.Yiğit, M. Bayram, “Numerical Solutions for Higher Order Singular Perturbation Problems by Polynomial Based Differential Quadrature”, 3<sup>rd</sup> International Conference on Pure and Applied Sciences, Dubai, 02-06 February, 2017, page 25.

## **FOREIGN LANGUAGES**

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- English (Advanced), YÖKDİL: 90.000 (2019)
- French: Elementary.