Year	Semester	Student	Senior Project Title	Advisor
2022	Fall	Mehmet Ali Atılgan	Numerical and Machine Learning Approaches in Natural Convection Flow of a Nanofluid in a Wavy Cavity	Dr. Bengisen Pekmen
		Utku Kahyaoğlu	Elementary Properties of Volterra Integral Equations	Dr. Niyazi Anil Gezer
		Esmanur Demirci	Groebner Bases and An Application in Graph Theory	Dr. Engin Özkan
		Emine Korkut	Essential Number Theory for Public-Key Algorithms and The RSA Cryptosystem	Dr. Fuat Erdem
		Elif Cengiz	Chaotic Dynamics of the Logistic Map	Dr. Mehmet Onur Fen
		Deniz Bernis Gültekin	Systems of Differential Equations	Dr. Mehmet Onur Fen
		Didem Aydoğan	Logistic Regression: A Felixible Approach for Analysis of Categorical Outcome Data	Dr. Çiğdem Topçu Gülöksüz
2023	Spring	Aylin Keçeli	Numerical and Machine Learning Approach in Natural Convection Flow in a Square Cavity	Dr. Bengisen Pekmen
2023	Fall	Didem Nazlı Doğaner	Matrix Limits	Dr. Engin Özkan
		Pınar Yurttaş	Simplicial Complexes and Simplicial Homology	Dr. Engin Özkan
		Gülay Yılmaz	Interpolation on MHD natural convection flow in a porous medium	Dr. Bengisen Pekmen
		İrem Su Doğan	Chebyshev Collocation Method for Solution of Double Diffusive Magneto-Convection in a Square Cavity	Dr. Bengisen Pekmen
		Merve Kayabaşı	Modeling for shape parameter c in MQ-RBF applied to Burgers' equations	Dr. Bengisen Pekmen
		Ümmühan Yirmili	Numerical and Statistical Approaches in Chemotaxis Haptotaxis Model of Cancer Cell Invasion	Dr. Bengisen Pekmen

		Sevgi Dilay Demirci	Geometric Constructions	Dr. Fuat Erdem
		Filiz Tekin	Solutions of Quadratic, Cubic and Quartic Equations by Formulas	Dr. Fuat Erdem
		Desdina İnanır	Wallpaper Groups and Wallpaper Patterns	Dr. Fuat Erdem
		Mina Ilgın İnal	Numerical Solutions of MHD Stokes flow in a Lid-Driven Cavity	Dr. Merve Gurbuz-Caldag
		Rabiye Nur Balci	Application of the Finite Difference MEthod to Navier-Stokes Equations	Dr. Merve Gurbuz-Caldag
		Şeyma Gülşen Akkuş	Discriminant Analysis and k-Nearest Neighbors MEthod: A Practical Study of Classification Problem	Dr. Çiğdem Topçu Gülöksüz
		Ezgi Kıratlı	Monte Carlo Simulation for Financial Risk Management: A Study on the Calculation of Value at Risk and Conditional Value at Risk	Dr. Çiğdem Topçu Gülöksüz
		Buse Genç	Dynamical Systems and Bifurcation Theory	Dr. Mehmet Onur Fen
2024	Spring	Enes Öztürk	Numerical and Statistical Investigation on a Physicaş Problem	Dr. Bengisen Pekmen
		Harun Ekici	Exploring Time Series Models: Introduction to Moving Average, Autoregressive, and ARMA Processes	Dr. Çiğdem Topçu Gülöksüz
		Donald Jordy Kenfack Djoutsop	Fermat's Last Theorem For Regular Primes	Dr. Şükran Gül Erdem
2024	Fall	Gülsüm Kayhan	Impulsive Differential Equations	Dr. Mehmet Onur Fen
		Tarık Doğan	Control and Synchronization in Chaotic Systems	Dr. Mehmet Onur Fen
		Halil Eren Öymez	Brief View to Raymarching	Dr. Mehmet Onur Fen

2025	Spring	Hazal Tutkun	Regular and Chaotic Dynamics of Maps and Differential Equations	Dr. Mehmet Onur Fen
		Cemile Nur Hacıosmanoğlu	Differential Quadrature Method Solution of Some 5th Order KdV Equations	Dr. Bengisen Pekmen
		Meryem Terzioğlu	RBF Solution of Third Order KdV Equations	Dr. Bengisen Pekmen
		Zeynep Çivioğlu	Impact of Mesh Generation on RBF Solution of Natural Convection Flow	Dr. Bengisen Pekmen
		Zeynep Berre Tufan	Curve Fitting by Regression Methods	Dr. Niyazi Anıl Gezer
		Rukiye Şilan Kahriman	Introduction to Time Scale	Dr. Şeyda Solmaz
2025	Fall	Regaip Burak Akkuş	The Impact of Time Dependent Magnetic Field on Cu-water Nanofluid	Dr. Merve Gurbuz-Caldag
		Damla Sağ	The Impact of Gavity Modulation on Bioconvection Flow	Dr. Merve Gurbuz-Caldag
		Elif Su Yurdakul	Legendre Collocation Method Applications on Some Physical Problems	Dr. Bengisen Pekmen
		Melike Ay	Laguerre polynomial based collocation method application on some differential equations	Dr. Bengisen Pekmen
		Pınar Dolunay Guzel	Chebyshev Collocation Method Applications on Some Chosen Problem	Dr. Bengisen Pekmen
		Nisa Genç	RBF-PUM Solution of Bioconvection Flow	Dr. Bengisen Pekmen
		Fatma Ebru Ketenci	Hurwitz's Sums of Squares Theorem	Dr. Engin Özkan
2026	Spring	Pelin Pekel	Matrix Factorization and Their Theoretical Foundations	Dr. Niyazi Anil Gezer
		Sema Nur Tiren	Differential Equations with Deviating Arguments	Dr. Mehmet Onur Fen
		Soner Alp Vardarlı	Fractional Calculus	Dr. Mehmet Onur Fen

		Kerim Emirhan Arınç	Mini Batch Gradient Descent Application on a Simulated Fluid Dynamics Dataset	Dr. Bengisen Pekmen
		Yüksel Deniz Akar	Naive Review of the Finite Element Method for Transient Heat Transfer	Dr. Bengisen Pekmen