



# Taras Shevchenko National University of Kyiv

## Faculty of Mechanics and Mathematics



**CERTIFICATE No. EZ-037-2022**

**This is to certify that**

**Natalia TYMOCHKO**

**has successfully completed the course “LINEAR ALGEBRA” and received a grade of 80 points.**

*Lecturer of the course: Efim Zelmanov, the Fields Medalist, Honorary Doctor of Taras Shevchenko National University of Kyiv, Professor of the University of California, San Diego, United States of America.*

Topics covered: Complex numbers; Systems of linear equations; Vector spaces; Linear transformations; Permutations; Determinants; Algebra of matrices.

Total course time: 120 hours (4 ECTS)

Period: 19.09.2022 - 31.12.2022

**Prof. Oksana Bezushchak,  
Dean of the Faculty of Mechanics and Mathematics,  
Taras Shevchenko National University of Kyiv,**



**Kyiv, Ukraine  
December 31, 2022**