## MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

**O. M. BEKETOV NATIONAL UNIVERSITY**

**of URBAN ECONOMY in KHARKIV**

**A. Naboka,**

**D. Petrenko**

**DESIGN OF HIGH-RISE BUILDINGS**

LECTURE NOTES

*for all educational forms Master’s Degree specialty*

*192 – Building Industry and Civil Engineering,*

*educational program “Civil and Industrial Engineering”)*

**Kharkiv**

**О. М. Bеketov NUUE**

**2024**

UDC 624.014

Design of high-rise buildings: Lecture Notes for all educational forms Master’s Degree students on specialty 192 – Building Industry and Civil Engineering, educational program “Civil and Industrial Engineering” / A. Naboka, D. Pertrenko; О. М. Beketov National University of Urban Economy in Kharkiv. – Kharkiv : О. М. Beketov NUUE, 2024. – 100 p.

Authors:

PhD (Engineering), Senior lecturer A. Naboka

PhD (Engineering), Senior lecturer D. Petrenko,

Reviewer

**P. Firsov,** PhD (Engineering), Ass. Professor, Ass. Professor of Building Structures Department of O. M. Beketov National University of Urban Economy in Kharkiv

*Recommended by the Building Structures Department, record № 15 on 01.05.2024*

© A. Naboka, D. Petrenko, 2024

© O. M. Beketov NUUE in Kharkiv, 2024