

# CIMS

## CHALLENGES AND ISSUES OF MODERN SCIENCE

### CERTIFICATE

is issued to:

**Oleh Murashko**

for the successful completion of scientific and pedagogical internship program held by The Faculty of Physics and Technology of Oles Honchar Dnipro National University and confirmed accomplishment of 30 hours of internship (1.0 ECTS credits) with competencies in:

“Professional Development by Specialty” – 0.5 ECTS credits,  
“Improvement of Pedagogical Skills” – 0.5 ECTS credits.

#### Modules included:

1. Introduction to Open Science and FAIR Principles – 2 hours
2. Metadata Standards and Models – 2 hours
3. Initiative for Open Citations (I4OC) – 2 hours
4. Interoperability of Metadata – 2 hours
5. Research Metrics and Open Citation Analysis – 2 hours
6. Digital Repositories and Data Platforms – 2 hours
7. Metadata Creation and Validation – 2 hours
8. Policies and Ethics in Open Science – 2 hours
9. Practical Exercises and Independent Work – 12 hours
10. Evaluation of Learning Outcomes – 2 hours

The certificate is approved by the decision of the academic council of the Faculty of Physics and Technology.

Mins. No. 11 dated June 10, 2025.

Dnipro, Ukraine

May 27 – 30, 2025.

No: MMXXV1024



**ANATOLII SANIN**

Head of the academic council