



## WORK CURRICULUM for the 2024/2025 Academic Year (Enrollment 2023)

APPROVED  
Vice-Rector for Academic Work  
  
\_\_\_\_\_ Anatolii MELNYCHENKO  
" " \_\_\_\_\_ 2024 p.

|                                      |                              |                     |   |
|--------------------------------------|------------------------------|---------------------|---|
| Speciality                           | 184 Mining                   | Faculty (Institute) | Educational and Research Institute of Energy Saving and Energy Management |
| Educational and Scientific Programme | Geoengineering               | Form of Study       | <i>part-time</i>  |
| Level                                | Doctor of Philosophy         | Study Duration      | 4 years   |
| Graduation Department                | Department of Geoengineering | Qualification       | Doctor of Philosophy in Mining  |

| No   | Educational Components  | Department | Number of Students |          | Scope of Disciplines |       | Number of Hours |                   |                    |                   |                    |                   |                    |                     | Control Activities |       |             |             |             |                 | Distribution of Classroom Hours per Week by Term |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|------------|--------------------|----------|----------------------|-------|-----------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|---------------------|--------------------|-------|-------------|-------------|-------------|-----------------|--|-----------|-----------------|----------|-------|---|----------|-------|---|---|---|---|---|---|---|---|---|---|---|--|
|  |   |            | Budget             | Contract | ECTS Credits         | Hours | Total           | Lectures          |                    | Practical         |                    | Laboratory        |                    | Individual training | Self-Study         | Exams | Final Tests | Module Test | Courseworks | Course Projects | Calculation, Graphic Assignments                 | Home Test | Essay, Abstract | 3 Term   |       |   | 4 Term   |       |   |   |   |   |   |   |   |   |   |   |   |  |
|  |   |            |                    |          |                      |       |                 | by the curriculum | with indiv. train. | by the curriculum | with indiv. train. | by the curriculum | with indiv. train. |                     |                    |       |             |             |             |                 |  |           |                 | 17 Weeks | incl. |   | 29 Weeks | incl. |   |   |   |   |   |   |   |   |   |   |   |  |
|  |   |            |                    |          |                      |       |                 |                   |                    |                   |                    |                   |                    |                     |                    |       |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>1. NORMATIVE educational components</b>   |   |            |                    |          |                      |       |                 |                   |                    |                   |                    |                   |                    |                     |                    |       |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| Academic Disciplines Aimed at Obtaining Profound Knowledge in Speciality                                   |   |            |                    |          |                      |       |                 |                   |                    |                   |                    |                   |                    |                     |                    |       |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| 1  | <i>Geomechanical Processes in Rock Ranges</i>   | HI         | 0                  | 2        | 6.0                  | 180   | 14              | 6                 | -                  | 8                 | -                  | -                 | -                  | 0                   | 166                | 3     | 3           |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| 2  | <i>Mathematical Modelling of Geomechanical Processes. Part 1. Mechanics of Deformed Solid Body</i>  | HI         | 0                  | 2        | 3.0                  | 90    | 10              | 4                 | -                  | 6                 | -                  | -                 | -                  | 0                   | 80                 | 3     |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| 3  | <i>Mathematical Modelling of Geomechanical Processes. Part 2. Numerical Methods in Geomechanics</i> | HI         | 0                  | 2        | 3.0                  | 90    | 4               | 2                 | -                  | 2                 | -                  | -                 | -                  | 0                   | 86                 | 4     |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| Academic Disciplines Aimed at Achieving Universal Competencies of a Researcher                             |   |            |                    |          |                      |       |                 |                   |                    |                   |                    |                   |                    |                     |                    |       |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| 4  | <i>Pedagogical practice</i>   | HI         | 0                  | 2        | 4.0                  | 120   | 0               | -                 | -                  | -                 | -                  | -                 | -                  | 0                   | 120                | 3     |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| TOTAL of NORMATIVE educational components  |   |            |                    |          | 16                   | 480   | 28              | 12                | 0                  | 16                | 0                  | 0                 | 0                  | 0                   | 452                | 2     | 2           | 1           | 0           | 0               | 0  | 0         | 0               | 0        | 0     | 0 | 0        | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| <b>2. ELECTIVE educational components</b>  |   |            |                    |          |                      |       |                 |                   |                    |                   |                    |                   |                    |                     |                    |       |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| Vocational training cycle (Elective educational components from Interfaculty/Faculty/Department catalogue) |   |            |                    |          |                      |       |                 |                   |                    |                   |                    |                   |                    |                     |                    |       |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| 5  | <i>Information technologies in pedagogical and scientific activities</i>                            | HI         | 0                  | 2        | 6.0                  | 180   | 12              | 8                 | -                  | 4                 | -                  | -                 | -                  | 0                   | 168                | 4     |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| 6  | <i>GIS (Geographic Information Systems)</i>   | HI         | 0                  | 2        | 6.0                  | 180   | 12              | 8                 | -                  | 4                 | -                  | -                 | -                  | 0                   | 168                | 4     |             |             |             |                 |  |           |                 |          |       |   |          |       |   |   |   |   |   |   |   |   |   |   |   |  |
| Total number of Vocational training cycle  |   |            |                    |          | 12                   | 360   | 24              | 16                | 0                  | 8                 | 0                  | 0                 | 0                  | 0                   | 336                | 0     | 2           | 0           | 0           | 0               | 0  | 0         | 0               | 0        | 0     | 0 | 0        | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| TOTAL of ELECTIVE educational components   |   |            |                    |          | 12                   | 360   | 24              | 16                | 0                  | 8                 | 0                  | 0                 | 0                  | 0                   | 336                | 0     | 2           | 0           | 0           | 0               | 0  | 0         | 0               | 0        | 0     | 0 | 0        | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
| TOTAL NUMBER   |   |            |                    |          | 28                   | 840   | 52              | 28                | 0                  | 24                | 0                  | 0                 | 0                  | 0                   | 788                | 2     | 4           | 1           | 0           | 0               | 0  | 0         | 0               | 0        | 0     | 0 | 0        | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |

\* Pedagogical practice can be carried out during the term

|          |                                  |   |   |   |
|----------|----------------------------------|---|---|---|
| Quantity | Exams                            | 2 | 1 | 1 |
|          | Final tests                      | 4 | 2 | 2 |
|          | Module tests                     | 1 | 1 |   |
|          | Courseworks                      | 0 |   |   |
|          | Course projects                  | 0 |   |   |
|          | Calculation, graphic assignments | 0 |   |   |
|          | Home tests                       | 2 |   | 2 |
|          | Essays, abstracts                | 1 | 1 |   |

DISTRIBUTION OF HOURS FOR THE PREPARATION AND DEFENSE OF THE DOCTOR OF PHILOSOPHY DISSERTATION

| PRACTICE             |                         |       |          |
|----------------------|-------------------------|-------|----------|
| Type of practice     | Date of implementation  | Weeks | Semester |
| Pedagogical practice | 2024-12-16 - 2024-12-29 | 2     | 3        |

| Type of work | The rate is in hours per 1 acquirer | Department | Number of acquirers |   | Total hours |   |
|--------------|-------------------------------------|------------|---------------------|---|-------------|---|
|              |                                     |            | B                   | C | B           | C |
| Керівництво  | 0                                   | ГІ         | 0                   | 2 | 0           | 0 |
| Total hours  | 0                                   |            | Total hours         |   | 0           | 0 |

Approved at the meeting of the Academic Council NNIEE Protokol No \_\_\_\_\_ from \_\_\_\_\_

Head of the Department HI \_\_\_\_\_

Natalia ZUIEVSKA  
(sign)

Dean of the Faculty/ Director of the Institute NN IEE \_\_\_\_\_

Oksana VOVK  
(sign)

Note: Work curriculum is part of the curriculum and is formed on the basis of the analysis of individual curricula of higher education applicants for the current academic year;