**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ**

**НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ БІОРЕСУРСІВ І ПРИРОДОКОРИСТУВАННЯ УКРАЇНИ**

**Факультет конструювання та дизайну**

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| **Розглянуто і схвалено**  **вченою радою НУБіП України**  **«\_\_» \_\_\_\_\_\_\_\_\_\_ 2021 р.**  **(протокол № \_\_\_\_\_\_)** | **«ЗАТВЕРДЖУЮ»**  **Ректор НУБіП України**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_С. Ніколаєнко**  **«\_\_\_\_» \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2021 року** |

**НАВЧАЛЬНИЙ ПЛАН**

**підготовки фахівців 2021 року вступу**

Рівень вищої освіти Другий (магістерський**)**

Галузь знань 19 « Архітектура та будівництво»

(Шифр та найменування галузі знань)

Спеціальність 192 «Будівництво та цивільна інженерія»

(Код та напрям підготовки)

Освітня програма «Будівництво та цивільна інженерія»

Орієнтація освітньої програми Освітньо-наукова

Форма навчання Денна

Термін навчання (обсяг кредитів ЄКТС) 2 роки (120 кредитів)

На основі ОС «Бакалавр»

Ступінь вищої освіти «Магістр»

Кваліфікація Магістр з будівництва та цивільної інженерії

**I. Графік ОСВІТНЬОГО процесу**

**підготовки фахівців другого (магістерського) рівня вищої освіти 2021 року вступу**

**спеціальності 192 «Будівництво та цивільна інженерія»,**

**освітньо-наукової програми «Будівництво та цивільна інженерія»**

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| **Рік навчання** | **2021 рік** | | | | | | | | | | | | | | | | | | **2022 рік** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Вересень | | | | | 27 | Жовтень | | | | Листопад | | | | 29 | Грудень | | | 27 | | Січень | | | | 31 | Лютий | | | 28 | | Березень | | | 28 | | Квітень | | | | | Травень | | | | 30 | Червень | | | 27 | | Липень | | | | Серпень | | | | |
| 1 | 6 | | 13 | 20 | ІХ | 4 | 11 | 18 | 25 | 1 | 8 | 15 | 22 | XІ | 6 | 13 | 20 | XII | 3 | | 10 | 17 | 24 | І | 7 | 14 | 21 | ІІ | 7 | | 14 | 21 | ІІІ | 4 | | 11 | 18 | 25 | 2 | | 9 | 16 | 23 | V | 6 | 13 | 20 | VI | 4 | | 11 | 18 | 25 | 1 | 8 | 15 | 22 | |
|  |  | |  | 29 | 2 |  |  |  |  |  |  |  |  | 4 |  |  |  | 1 |  | |  |  |  | 5 |  |  |  | 5 |  | |  | 30 | 2 |  | |  |  |  |  | |  |  |  | 4 |  |  |  | 2 |  | |  |  |  |  |  |  |  | |
| 4 | 11 | | 18 | 25 | Х | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | XІІ | 11 | 18 | 25 | І | 8 | | 15 | 22 | 29 | ІІ | 12 | 19 | 26 | ІІІ | 12 | | 19 | 26 | IV | 9 | | 16 | 23 | 30 | 7 | | 14 | 21 | 28 | VІ | 11 | 18 | 25 | VIІ | 9 | | 16 | 23 | 30 | 6 | 13 | 20 | 27 | |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | 29 | 30 | 31 | 32 | | 33 | 34 | 35 | 36 | | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | | 46 | 47 | 48 | 49 | 50 | 51 | 52 | |
| **І** |  |  | |  |  |  |  |  | **А** |  |  |  |  |  |  |  | **:** | **:** | **:** | **-** | | **-** | **-** | **-** |  |  |  |  |  |  | |  | **А** |  |  | |  |  |  |  | |  | **:** | **:** | **:** | **Х** | **Х** | **Х** | **Х** | **Х** | | **Х** | **-** | **-** | **-** | **-** | **-** | **-** | |
| **Рік навчання** | **2022 рік** | | | | | | | | | | | | | | | | | | | | **2023 рік** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | Вересень | | | 26 | Жовтень | | | | 31 | Листопад | | | 28 | Грудень | | | | | Січень | | | | 30 | Лютий | | | 27 | | Березень | | | 27 | | Квітень | | | | Травень | | | | | 29 | Червень | | | 26 | | Липень | | | | 31 | Серпень | | |
| VIIІ | 5 | | 12 | 19 | ІХ | 3 | 10 | 17 | 24 | Х | 7 | 14 | 21 | ХІ | 5 | 12 | 19 | 26 | 2 | | 9 | 16 | 23 | І | 6 | 13 | 20 | ІІ | 6 | | 13 | 20 | ІІІ | 3 | | 10 | 17 | 24 | 1 | | 8 | 15 | 22 | V | 5 | 12 | 19 | VІ | 3 | | 10 | 17 | 24 | VІІ | 7 | 14 | 21 | |
| 3 |  | |  |  | 1 |  |  |  |  | 5 |  |  |  | 3 |  |  |  |  |  | |  |  |  | 4 |  |  |  | 4 |  | |  |  | 1 |  | |  |  |  |  | |  |  |  | 3 |  |  |  | 1 |  | |  |  |  | 5 |  |  |  | |
| ІХ | 10 | | 17 | 24 | Х | 8 | 15 | 22 | 29 | ХІ | 12 | 19 | 26 | ХІІ | 10 | 17 | 24 | 31 | 7 | | 14 | 21 | 28 | ІІ | 11 | 18 | 25 | ІІІ | 11 | | 18 | 25 | IV | 8 | | 15 | 22 | 29 | 6 | | 13 | 20 | 27 | VІ | 10 | 17 | 24 | VІІ | 8 | | 15 | 22 | 29 | VІІІ | 12 | 19 | 26 | |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | 29 | 30 | 31 | 32 | | 33 | 34 | 35 | 36 | | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | | 46 | 47 | 48 | 49 | 50 | 51 | 52 | |
| **ІІ** | Д | Д | | Д | Д | Д | Д | Д | Д | Д | Д | Д | Д | Д | Д | Д | **:** | **:** | **П** | - | | - | - | - |  |  |  |  |  |  | |  |  |  |  | | **:** | **:** | **П** | **П** | | **П** | **П** | **П** | **//** |  |  |  |  |  | |  |  |  |  |  |  |  | |

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| **Умовні позначення:** | | | |  |  |  | | | |  |  |  |  |  |  |  |  |  | | | | |  | |  | |  | |  | |  | |  | |  | |
|  |  | - | теоретичне навчання | | | |  |  | **Х** | - | виробнича практика | | | | | | | |  |  |  |  | |  | |  | |  | |  | |  | |  | |
|  | **:** | - | екзаменаційна сесія |  |  |  |  |  | **З** | - | захист звітів з практики | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **-** | - | канікули | | | | |  | **П** | - | підготовка кваліфікаційної магістерської роботи | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **Д** | - | Науково-дослідницька практика | | | | |  | **//** | - | атестація здобувачів вищої освіти (атестаційний екзамен  чи/та захист кваліфікаційної магістерської роботи) | | | | | | | | | | | | | | | | | | | | | | | | | |

**Декан факультету З. Ружило**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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ПЛАН ОСВІТНЬОГО ПРОЦЕСУ** | | | | | | | | | | | | | | | | | | | **№ п/п** | **Назва навчальної дисципліни** | **Загальний обсяг** | | **Форми контролю знань за семестрами** | | | **Аудиторні заняття, години** | | | | **Самостійна робота** | **Практична підготовка** | | **Розподіл тижневих годин за роками навчання та семестрами** | | | | | | **годин** | **кредитів** | **Екзамен** | **Залік** | **Курсова робота** | **Всього** | **у тому числі** | | | **Виробнича практика** | **Науково-дослідна практика** | **1 рік навчання** | | **2 рік навчання** | | | **лекції** | **лабораторні** | **практичні** | **1 сем** | **2 сем** | **3 cем** | **4 сем** | | **Кількість тижнів у семестрі** | | | | | **15** | **15** | **15** | **10** | | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | | 1. **ЦИКЛ ЗАГАЛЬНОЇ ПІДГОТОВКИ** | | | | | | | | | | | | | | | | | | | **Обов’язкові компоненти ОНП** | | | | | | | | | | | | | | | | | | | ОК 1 | Виробнича та екологічна безпека в будівництві | 120 | 4 | 2 |  |  | 60 | 30 | 30 |  | 60 |  |  |  | 4 |  |  | | ОК 2 | Теорія і методика наукових досліджень | 120 | 4 | 2 |  |  | 60 | 30 | 30 |  | 60 |  |  | 4 |  |  |  | | **Всього** | | **240** | **8** | **2** |  |  | **120** | **60** | **60** |  | **120** |  |  | **4** | **4** |  |  | | **Вибіркові компоненти ОНП** | | | | | | | | | | | | | | | | | | | ***Вільного вибору за уподобанням студентів із переліку дисциплін*** | | | | | | | | | | | | | | | | | | | ВВ 1 | Вибіркова дисципліна 1 | 120 | 4 | 2 |  |  | 30 | 15 | 15 |  | 90 |  |  | 2 |  |  |  | | ВВ 2 | Вибіркова дисципліна 2 | 120 | 4 | 2 |  |  | 30 | 15 | 15 |  | 90 |  |  | 2 |  |  |  | | **Всього** | | **240** | **8** | **2** |  |  | **60** | **30** | **30** |  | **180** |  |  | **4** |  |  |  | | **2. ЦИКЛ СПЕЦІАЛЬНОЇ (ФАХОВОЇ) ПІДГОТОВКИ** | | | | | | | | | | | | | | | | | | | **Обов’язкові компоненти ОНП** | | | | | | | | | | | | | | | | | | | ОК 3 | Моделювання будівель і споруд с.г. призначення | 150 | 5 | 1 |  | 30 | 60 | 30 | 30 |  | 60 |  |  | 4 |  |  |  | | ОК 4 | Реконструкція будівель і споруд | 120 | 4 | 2 |  |  | 45 | 30 | 15 |  | 75 |  |  |  | 3 |  |  | | ОК 5 | Основи системного аналізу | 120 | 4 | 1 |  |  | 60 | 30 | 30 |  | 60 |  |  | 4 |  |  |  | | ОК 6 | Випробування буд конструкцій (ОіФ, ЗБК, МК) | 120 | 4 | 2 |  |  | 45 | 15 | 30 |  | 75 |  |  |  | 3 |  |  | | ОК 7 | Ремонт та експлуатація будинків і споруд | 120 | 4 | 1 |  |  | 30 | 15 |  | 15 | 90 |  |  | 2 |  |  |  | | ОК 8 | Інженерний захист та підготовка території (ОіФ, ТБВ) | 120 | 4 | 1 |  |  | 45 | 15 | 30 |  | 75 |  |  | 3 |  |  |  | | ОК 9 | Динаміка і стійкість будівель і споруд | 120 | 4 | 4 |  |  | 30 | 20 | 10 |  | 90 |  |  |  |  |  | 3 | | ОК 10 | САПР у будівництві | 150 | 5 | 2 |  |  | 75 | 30 | 45 |  | 75 |  |  |  | 5 |  |  | | ОК 11 | Діагностика технічного стану будівель і споруд | 150 | 5 | 4 |  | 30 | 40 | 20 | 20 |  | 80 |  |  |  |  |  | 4 | | ОК 12 | Науково-інженерні вишукування в будівництві | 120 | 4 | 4 |  |  | 40 | 20 | 20 |  | 80 |  |  |  |  |  | 4 | | ОК 13 | Об’ємно-просторові рішення будівель і споруд | 180 | 6 | 2 | 1 | 30 | 75 | 30 | 45 |  | 75 |  |  | 3 | 2 |  |  | | ОК 14 | Технологія зведення будинків і споруд с.-г. призначення | 120 | 4 | 2 |  |  | 60 | 30 | 30 |  | 60 |  |  |  | 4 |  |  | | ОК 15 | Виробнича практика | 180 | 6 |  | 2 |  |  |  |  |  |  | 180 |  |  |  |  |  | | ОК 16 | Науково-дослідна практика | 450 | 15 |  | 3 |  |  |  |  |  |  |  | 450 |  |  |  |  | | ОК 17 | Підготовка і захист кваліфікаційної магістерської роботи | 180 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | **Всього** | | **2400** | **80** | **12** | **3** | **90** | **605** | **285** | **305** | **15** | **895** | **180** | **450** | **16** | **17** |  | **11** | | **Вибіркові компоненти ОНП** | | | | | | | | | | | | | | | | | | | ***Вибірковий блок за вибором за*** спеціальністю | | | | | | | | | | | | | | | | | | | ВБ1.1.1 | Наукові основи теорії надійності та ризиків у будівництва | 120 | 4 | 2 |  |  | 60 | 30 | 30 |  | 60 |  |  |  | 4 |  |  | | ВБ1.1.2 | Наукові гіпотези та їх експериментальна перевірка в будівництві | | ВБ1.2.1 | Енергоефективність будівель і споруд | 120 | 4 | 4 |  |  | 30 | 20 | 10 |  | 90 |  |  |  |  |  | 3 | | ВБ1.2.2 | Енергоефективні матеріали та технології в будівництві | | ВБ1.3.1 | Мехатронні системи в будівництві | 120 | 4 | 1 |  |  | 45 | 15 | 30 |  | 75 |  |  | 3 |  |  |  | | ВБ1.3.2 | Роботизація будівництва | | ВБ1.3.3 | Автоматизація житлових та комерційних будівель | | ВБ1.4.1 | Екологічні будівельні матеріали та технології | 120 | 4 | 4 |  |  | 20 | 10 | 10 |  | 100 |  |  |  |  |  | 2 | | ВБ1.4.2 | Оцінка екологічної безпечності обєктів будівництва | | ВБ1.5.1 | Індустріальні наноматеріали та нанотехнології | 120 | 4 | 4 |  |  | 20 | 10 | 10 |  | 100 |  |  |  |  |  | 2 | | ВБ1.5.2 | 3-д друк в будівельних технологіях | | ВБ1.6.1 | Кошторисна та договірна документація | 120 | 4 | 2 |  |  | 30 | 15 | 15 |  | 90 |  |  |  | 2 |  |  | | ВБ1.6.2 | Економіка інновацій у будівництві | | **Всього** | | **720** | **24** | **6** |  |  | **205** | **100** | **105** |  | **515** |  |  | **3** | **6** |  | **7** | | **Разом за обов’язковими компонентами** | | **2640** | **88** | **14** |  | **90** | **725** | **345** | **365** | **15** | **1015** | **180** | **450** |  |  |  |  | | **Разом за вибірковими компонентами** | | **960** | **32** |  |  |  | **265** | **130** | **135** |  | **695** |  |  |  |  |  |  | | **Кількість курсових робіт (проектів)** | |  |  |  |  | **3** |  |  |  |  |  |  |  |  |  |  |  | | **Кількість заліків** | |  |  |  | **3** |  |  |  |  |  |  |  |  |  |  |  |  | | **Кількість екзаменів** | |  |  | **22** |  |  |  |  |  |  |  |  |  |  |  |  |  | | **Разом за ОНП** | | **3600** | **120** | **22** | **3** | **90** | **990** | **475** | **500** | **15** | **1710** | **180** | **450** | **27** | **27** |  | **18** | | |
| **ІІІ. СТРУКТУРА НАВЧАЛЬНОГО ПЛАНУ**   |  |  |  |  | | --- | --- | --- | --- | | **Навчальні дисципліни** | **Години** | **Кредити** | **%** | | 1. Обов’язкові компоненти ОНП | 2640 | 88 | 73 | | 2**.** Вибіркові компоненти ОНП | 960 | 32 | 27 | | *вільного вибору за уподобанням студентів* | 240 | 8 | 7 | | *за вибором за* спеціальністю | 720 | 24 | 20 | | **Разом за ОНП** | **3600** | **120** | **100** | | | **IV. ЗВЕДЕНІ ДАНІ про БЮДЖЕТ ЧАСУ, ТИЖНІ**   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Рік навчання** | **Теоретичне навчання** | **Екзамена-ційна сесія** | **Практична підготовка** | **Підготовка магістерської роботи** | **Атестація здобувачів** | **Канікули** | **Всього** | | 1 | 30 | 5 | 6 | - | - | 11 | **52** | | 2 | 10 | 2 | 15 | 6 | 1 | **5** | **39** | | **Разом за ОНП** | **40** | **7** | **21** | **6** | **1** | **16** | **91** |   **V. ПРАКТИЧНА ПІДГОТОВКА**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **№** | **Вид практики** | **Семестр** | **Години** | **Кредити** | **Кількість тижнів** | | 1 | Виробнича практика | 2 | 180 | 6 | 6 | | 2 | Науково-дослідна практика | 3 | 450 | 15 | 15 |   **VI. КУРСОВІ РОБОТИ І ПРОЕКТИ**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **№** | **Назва дисципліни** | **Години** | **Кредити** | **Курсова робота** | **Курсовий проект** | | 1 | Моделювання будівель і споруд с.-г. призначення | 30 | 1 | **-** | 1 | | 2 | Діагностика технічного стану будівель і споруд | 30 | 1 | **-** | 1 | | 3 | Об’ємно-просторові рішення будівель і споруд | 30 | 1 | **-** | 1 |   **VІІ. АТЕСТАЦІЯ ЗДОБУВАЧІВ ВИЩОЇ ОСВІТИ**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **№** | **Складова атестації** | **Години** | **Кредити** | **Кількість тижнів** | | 1 | Підготовка і захист магістерської роботи | 180 | 6 | 7 | |  |  | | |

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| **«ПОГОДЖЕНО»** | **«РОЗРОБЛЕНО»** |
| **Проректор з навчальної і**  **виховної роботи \_\_\_\_\_\_\_\_\_\_\_ С.Кваша** | **Декан факультету З. Ружило** |
| **Начальник навчального відділу \_\_\_\_\_\_\_\_\_\_\_ В.Шевчук** |
| **Заступник начальника навчального**  **відділу з магістерських програм \_\_\_\_\_\_\_\_\_\_\_ О.Колеснікова** |  |