AKADEMIA KALISKA
im. Prezydenta Sanisława Wojciechowskiego
WYDZIAŁ POLITECHNICZNY

# PLAN STUDIÓW NIESTACJONARNYCH

KIERUNEK BUDOWNICTWO

| L.p. | Nazwa przedmiotu | L. egz. | Ogólna liczba godzin – Razem: PK | godz. | w tym: wykł. W | ćw. C | lab. L | proj. P | Rozdział zajęć programowych na semestry – SEMESTR I PK | E | W | C | L | P | SEMESTR II PK | E | W | C | L | P | SEMESTR III PK | E | W | C | L | P | SEMESTR IV PK | E | W | C | L | P | SEMESTR V PK | E | W | C | L | P | SEMESTR VI PK | E | W | C | L | P | SEMESTR VII PK | E | W | C | L | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | PRZEDMIOTY OGÓLNE | 1 | 16 | 110 | 14 | 74 | 7 | 15 | 2 | 0 | 0 | 0 | 0 | 15 | 3 | 0 | 0 | 15 | 7 | 0 | 2 | 0 | 0 | 15 | 0 | 0 | 2 | 0 | 0 | 15 | 0 | 0 | 3 | 1 | 0 | 15 | 0 | 0 | 4 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | Język obcy | 1 | 9 | 60 | 0 | 60 | 0 | 0 | | | | | | | 2 | | | 15 | | | 2 | | | 15 | | | 2 | | | 15 | | | 3 | E | | 15 | | | | | | | | | | | | | | |
| 2 | Technologia informacyjna | 0 | 2 | 15 | 0 | 0 | 0 | 15 | 2 | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Prawo budowlane i ochrona własności intelektualnej | 0 | 2 | 14 | 7 | 7 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 7 | 7 | | | | | | | | |
| 4 | Ergonomia, bezpieczeństwo i higiena pracy | 0 | 2 | 14 | 7 | 7 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 7 | 7 | | | | | | | | |
| 5 | Naturalna radioaktywność materiałów budowlanych | 0 | 1 | 7 | 0 | 0 | 7 | 0 | | | | | | | 1 | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | PRZEDMIOTY PODSTAWOWE | 2 | 31 | 235 | 99 | 65 | 61 | 10 | 20 | 1 | 72 | 43 | 21 | 10 | 5 | 1 | 20 | 22 | 0 | 0 | 2 | 0 | 0 | 0 | 15 | 0 | 4 | 0 | 7 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | Matematyka | 1 | 10 | 84 | 40 | 44 | 0 | 0 | 5 | | 20 | 22 | | | 5 | E | 20 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Fizyka | 0 | 4 | 29 | 15 | 7 | 7 | 0 | 4 | | 15 | 7 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Chemia budowlana | 0 | 4 | 29 | 15 | 7 | 7 | 0 | 4 | | 15 | 7 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Geologia inżynierska | 0 | 2 | 14 | 7 | 0 | 7 | 0 | 2 | | 7 | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Mechanika teoretyczna | 1 | 5 | 32 | 15 | 7 | 0 | 10 | 5 | E | 15 | 7 | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Metody obliczeniowe | 0 | 2 | 17 | 7 | 0 | 10 | 0 | | | | | | | | | | | | | | | | | | | 2 | | 7 | | 10 | | | | | | | | | | | | | | | | | | |
| 7 | Projektowanie w systemach Autocad | 0 | 4 | 30 | 0 | 0 | 30 | 0 | | | | | | | | | | | | | 2 | | | | 15 | | 2 | | | | 15 | | | | | | | | | | | | | | | | | | |
| C | PRZEDMIOTY KIERUNKOWE | 13 | 86 | 688 | 272 | 52 | 89 | 275 | 8 | 1 | 25 | 0 | 15 | 12 | 22 | 3 | 49 | 15 | 74 | 10 | 11 | 1 | 37 | 15 | 0 | 35 | 12 | 3 | 51 | 0 | 0 | 75 | 24 | 3 | 73 | 7 | 0 | 107 | 9 | 2 | 37 | 15 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | Geomoteria wykreślna | 0 | 3 | 22 | 10 | 0 | 0 | 12 | 3 | | 10 | | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Rysunek techniczny | 0 | 3 | 22 | 0 | 0 | 22 | 0 | | | | | | | 3 | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Geodezja | 0 | 4 | 29 | 12 | 0 | 17 | 0 | | | | | | | 4 | | 12 | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Materiały budowlane | 1 | 5 | 30 | 15 | 0 | 15 | 0 | 5 | E | 15 | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Technologia betonu | 1 | 5 | 25 | 15 | 0 | 10 | 0 | | | | | | | 5 | E | 15 | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Wytrzymałość materiałów | 1 | 6 | 50 | 15 | 15 | 10 | 10 | | | | | | | 6 | E | 15 | 15 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Mechanika budowli | 1 | 7 | 52 | 22 | 15 | 0 | 15 | | | | | | | | | | | | | 7 | E | 22 | 15 | | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Budownictwo ogólne | 1 | 8 | 70 | 30 | 0 | 0 | 40 | | | | | | | | | | | | | 4 | | 15 | | | 20 | 4 | E | 15 | | | 20 | | | | | | | | | | | | | | | | | | |
| 9 | Mechanika gruntów | 1 | 4 | 22 | 7 | 0 | 15 | 0 | | | | | | | 4 | E | 7 | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Fundamentowanie | 1 | 4 | 30 | 15 | 0 | 0 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | 4 | E | 15 | | | 15 | | | | | | | | | | | | |
| 11 | Konstrukcje betonowe | 1 | 8 | 70 | 30 | 0 | 0 | 40 | | | | | | | | | | | | | | | | | | | 3 | | 15 | | | 20 | 5 | E | 15 | | | 20 | | | | | | | | | | | | |
| 12 | Konstrukcje metalowe | 1 | 7 | 63 | 27 | 0 | 0 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 15 | | | 18 | 3 | E | 12 | | | 18 | | | | | | |
| 13 | Konstrukcje drewniane | 1 | 3 | 33 | 15 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | E | 15 | | | 18 | | | | | | |
| 14 | Instalacje budowlane | 0 | 3 | 25 | 10 | 15 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 10 | 15 | | | | | | | | |
| 15 | Budownictwo komunikacyjne | 1 | 2 | 22 | 7 | 0 | 0 | 15 | | | | | | | | | | | | | | | | | | | 2 | E | 7 | | | 15 | | | | | | | | | | | | | | | | | | |
| 16 | Fizyka budowli | 1 | 4 | 29 | 7 | 7 | 0 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | 4 | E | 7 | 7 | | 15 | | | | | | | | | | | | |
| 17 | Hydraulika i hydrologia | 0 | 1 | 17 | 7 | 0 | 0 | 10 | | | | | | | | | | | | | | | | | | | 1 | | 7 | | | 10 | | | | | | | | | | | | | | | | | | |
| 18 | Organizacja produkacji budowlanej | 0 | 2 | 16 | 7 | 0 | 0 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 7 | | | 9 | | | | | | | | | | | | |
| 19 | Technologia robót budowlanych | 1 | 2 | 17 | 7 | 0 | 0 | 10 | | | | | | | | | | | | | | | | | | | 2 | E | 7 | | | 10 | | | | | | | | | | | | | | | | | | |
| 20 | Kierowanie procesem inwestycyjnym | 0 | 2 | 22 | 7 | 0 | 0 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 7 | | | 15 | | | | | | | | | | | | |
| 21 | Ekonomika w budownictwie i kosztorysowanie | 0 | 3 | 22 | 7 | 0 | 0 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 7 | | | 15 | | | | | | | | | | | | |
| D | PRZEDMIOTY OBIERALNE | 0 | 4 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | Podstawy ekonomii<br>Ekonomia z elementami rachunkowości | 0 | 2 | 15 | 15 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 15 | | | | | | | | | |
| 2 | Podstawy zarządzania<br>Zarządzanie przedsiębiorstwem budowlanym | 0 | 2 | 15 | 15 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 15 | | | | | | | | | |
| E | PRZEDMIOTY SPECJALISTYCZNE (OBIERALNE) | 3 | 73 | 250 | 81 | 0 | 15 | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 1 | 40 | 0 | 0 | 63 | 12 | 0 | 14 | 0 | 15 | 15 | 3 | 1 | 10 | 0 | 0 | 18 | 13 | 1 | 17 | 0 | 0 | 33 | 30 | 0 | 0 | 0 | 0 | 25 |
| 1 | Nowoczesne technologie w budownictwie<br>Budownictwo wodne | 1 | 3 | 22 | 7 | 0 | 0 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | E | 7 | | | 15 | | | | | | |
| 2 | Stateczność i dynamika konstrukcji<br>Wybrane zagadnienia z mechaniki konstrukcji | 0 | 4 | 28 | 10 | 0 | 0 | 18 | | | | | | | | | | | | | 4 | | 10 | | | 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Odnawialne źródła energii<br>Budownictwo zrównoważone | 0 | 2 | 22 | 7 | 0 | 0 | 15 | | | | | | | | | | | | | | | | | | | 2 | | 7 | | | 15 | | | | | | | | | | | | | | | | | | |
| 4 | Ocena stanu technicznego budynków<br>Remonty i naprawy obiektów budowlanych | 0 | 2 | 28 | 10 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 10 | | | 18 | | | | | | |
| 5 | Urbanistyka i architektura<br>Architektura współczesna | 0 | 3 | 25 | 10 | 0 | 0 | 15 | | | | | | | | | | | | | 3 | | 10 | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Systemy wentylacji i klimatyzacji<br>Wykorzystanie odnawialnych źródeł energii w systemach wentylacji i klimatyzacji | 1 | 5 | 25 | 10 | 0 | 0 | 15 | | | | | | | | | | | | | 5 | E | 10 | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Komputerowe wspomaganie projektowania<br>Metody CAD w projektowaniu budowlanym | 0 | 2 | 22 | 7 | 0 | 15 | 0 | | | | | | | | | | | | | | | | | | | 2 | | 7 | | 15 | | | | | | | | | | | | | | | | | | | |
| 8 | Komfort wewnętrzny<br>Oddziaływanie obiektów budowlanych na środowisko | 0 | 3 | 25 | 10 | 0 | 0 | 15 | | | | | | | | | | | | | 3 | | 10 | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Podstawy energetyczne budynków i akustyka budynkowa<br>Audyt i certyfikacja energetyczna | 1 | 3 | 28 | 10 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | E | 10 | | | 18 | | | | | | | | | | | | |
| 10 | Seminarium dyplomowe | 0 | 3 | 25 | 0 | 0 | 0 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | 25 |
| 11 | Praca dyplomowa | 0 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | | | | | |
| 12 | Praktyka zawodowa | 0 | 32 | 6 miesięcy | | | | | | | | | | | | | | | | | | | | | | | 8 | | 6 tygodni | | | | | | | | | | 8 | | 6 tygodni | | | | 16 | | 12 tygodni | | | |
| | | | | | W | C | L | P | PK | E | W | C | L | P | PK | E | W | C | L | P | PK | E | W | C | L | P | PK | E | W | C | L | P | PK | E | W | C | L | P | PK | E | W | C | L | P | PK | E | W | C | L | P |
| | **RAZEM** | | **19** | **210** | **1313** | **496** | **191** | **172** | **454** | **30** | **2** | **97** | **43** | **36** | **37** | **30** | **4** | **69** | **52** | **81** | **10** | **30** | **2** | **77** | **30** | **15** | **98** | **30** | **3** | **72** | **15** | **40** | **90** | **30** | **5** | **83** | **22** | **0** | **125** | **30** | **3** | **98** | **29** | **0** | **69** | **30** | **0** | **0** | **0** | **0** | **25** |
| | 01.10.2021 | | Liczba godzin w semestrze | | | | | | | | 213 | | | | | | 212 | | | | | | 220 | | | | | | 217 | | | | | | 230 | | | | | | 196 | | | | | | 25 | | | |
| | | | Liczba godzin tygodniowo | | | | | | | | 14,2 | | | | | | 14,1 | | | | | | 14,7 | | | | | | 14,5 | | | | | | 15,3 | | | | | | 13,1 | | | | | | 1,7 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Praca dyplomowa: sem VII - do 275 godzin pracy studenta | | | | | | | | | | | | | | | | | | | | | | | |