# PLAN STUDIÓW STACJONARNYCH

Nazwa kierunku studiów: **Inżynieria Biomedyczna**

Forma studiów: **studia magisterskie stacjonarne II stopnia**

Rekrutacja w roku akademickim 2024/2025

czas trwania: 3 semestry

Uniwersytet Zielonogórski

WYDZIAŁ Mechaniczny

| LP. | | NAZWA PRZEDMIOTU | Liczba godzin | ECTS | Forma zal | SEMESTR 1 | | | | | | | SEMESTR 2 | | | | | | | SEMESTR 3 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Forma zajęć | | | | | Forma zal | ECTS | Forma zajęć | | | | | Forma zal | ECTS | Forma zajęć | | | | | Forma zal | ECTS |
| | | | | | | W | Ć | L | P | S | | | W | Ć | L | P | S | | | W | Ć | L | P | S | | |
| 1 | Moduł przedmiotów ogólnych (podstawowe i kierunkowe) | Systemy informatyczne w medycynie | 60 | 4 | ZO | 30 | | 30 | | | ZO | 4 | | | | | | | | | | | | | | |
| 2 | | Telematyka medyczna | 60 | 5 | E | 30 | | 30 | | | E | 5 | | | | | | | | | | | | | | |
| 3 | | Modelowanie struktur i procesów biologicznych | 60 | 5 | E | 30 | | 30 | | | E | 5 | | | | | | | | | | | | | | |
| 4 | | Inżynieria tkankowa i genetyczna | 45 | 3 | ZO | 30 | | 15 | | | ZO | 3 | | | | | | | | | | | | | | |
| 5 | | Metody badania biomateriałów i tkanek | 45 | 4 | E | 30 | | 15 | | | E | 4 | | | | | | | | | | | | | | |
| 6 | | Inżynieria rehabilitacji ruchowej | 60 | 4 | ZO | 30 | | 15 | 15 | | ZO | 4 | | | | | | | | | | | | | | |
| 7 | | Zagadnienia inżynierskie w medycynie I | 60 | 4 | ZO | 30 | | 30 | | | ZO | 4 | | | | | | | | | | | | | | |
| 8 | | Zarządzanie personelem | 15 | 1 | ZO | 15 | | | | | ZO | 1 | | | | | | | | | | | | | | |
| 9 | | Praca w zespole interdyscyplinarnym | 30 | 2 | ZO | | | | | | | | 15 | | 15 | | | ZO | 2 | | | | | | | |
| 10 | | Projektowanie i dobór materiałów do zastosowań medycznych | 90 | 7 | E | | | | | | | | 30 | | 30 | 30 | | E | 7 | | | | | | | |
| 11 | | Technika w medycynie | 30 | 1 | ZO | | | | | | | | | | | | | | | 30 | | | | | ZO | 1 |
| 12 | | Język angielski I | 30 | 2 | ZO | | | | | | | | | | 30 | | | ZO | 2 | | | | | | | |
| 13 | | Język niemiecki I | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | Praca przejściowa | 45 | 3 | ZO | | | | | | | | | | | 45 | | ZO | 3 | | | | | | | |
| 15 | | Praca dyplomowa | 0 | 20 | | | | | | | | | | | | | | | | | | | | | | 20 |
| 16 | Specjalność I: Biomechanika i Biomateriały w Medycynie | Trwałość biomateriałów | 60 | 4 | ZO | | | | | | | | 30 | | 30 | | | ZO | 4 | | | | | | | |
| 17 | | Nanotechologia w medycynie | 45 | 4 | E | | | | | | | | 15 | | 30 | | | E | 4 | | | | | | | |
| 18 | | Metody badania i oceny układów biomechanicznych | 60 | 5 | E | | | | | | | | 30 | | 30 | | | E | 5 | | | | | | | |
| 19 | | Projektowanie układów biomechatronicznych | 45 | 3 | ZO | | | | | | | | | | | | | | | 15 | | | 30 | | ZO | 3 |
| 20 | | Seminarium specjalistyczne | 30 | 2 | ZO | | | | | | | | | | | | | | | | | | | 30 | ZO | 2 |
| 21 | | Seminarium dyplomowe I | 30 | 3 | ZO | | | | | | | | | | | | 30 | ZO | 3 | | | | | | | |
| 22 | | Seminarium dyplomowe II | 60 | 4 | ZO | | | | | | | | | | | | | | | | | | | 60 | ZO | 4 |
| 16 | Specjalność II: Elektronika i Informatyka w Medycynie | Wydobywanie wiedzy z obrazów medycznych | 60 | 4 | ZO | | | | | | | | 30 | | 30 | | | ZO | 4 | | | | | | | |
| 17 | | Telekonsultacje i telekonferencje medyczne | 60 | 5 | E | | | | | | | | 30 | | 30 | | | E | 5 | | | | | | | |
| 18 | | Techniki pomiarów sygnałów bioelektrycznych | 45 | 4 | E | | | | | | | | 15 | | 30 | | | E | 4 | | | | | | | |
| 19 | | Cyfrowe techniki przetwarzania obrazów medycznych | 45 | 3 | ZO | | | | | | | | | | | | | | | 15 | | 30 | | | ZO | 3 |
| 20 | | Seminarium specjalistyczne | 30 | 2 | ZO | | | | | | | | | | | | | | | | | | | 30 | ZO | 2 |
| 21 | | Seminarium dyplomowe I | 30 | 3 | ZO | | | | | | | | | | | | 30 | ZO | 3 | | | | | | | |
| 22 | | Seminarium dyplomowe II | 60 | 4 | ZO | | | | | | | | | | | | | | | | | | | 60 | ZO | 4 |