

A

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | | | | |
|-----------------|---|-----|------------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | | | | |
| 28 | Immunologia | Z | 30 | 15 | 15 | 2 | | | | | | | | | | 15 | 15 | 2 | | | | | | |
| 29 | Metody eksperymentalne z biofizyki molekularnej | E | 75 | 30 | 45 | 5 | | | | | | | | | | 30 | 45 | 5 | | | | | | |
| 30 | Wstęp do biofizyki molekularnej cz. 2 | E | 60 | 30 | 30 | 5 | | | | | | | | | | 30 | 30 | 5 | | | | | | |
| TOTAL A: | | | 1845 | 725 | 1120 | 138 | 90 | 225 | 27 | 165 | 225 | 30 | 150 | 240 | 26 | 135 | 240 | 28 | 90 | 60 | 13 | 95 | 130 | 14 |

Grupa modułów dla specjalności

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | | | | |
|--|--|-----|------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|-----------|------------|-----------|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | | | | |
| 1 | Elementy fizyki ciała stałego | Z | 30 | 15 | 15 | 2 | | | | | | | | | | 15 | 15 | 2 | | | | | | |
| 2 | Wybrane zagadnienia z elektroniki analogowej i cyfrowej | E | 60 | 30 | 30 | 5 | | | | | | | | | | 30 | 30 | 5 | | | | | | |
| 3 | Bioelektronika | E | 30 | 15 | 15 | 2 | | | | | | | | | | | | | 15 | 15 | 2 | | | |
| 4 | Seminarium dyplomowe, pracownia dyplomowa, wykonanie pracy | Z | 90 | | 90 | 8 | | | | | | | | | | | | | | 90 | 8 | | | |
| 5 | Sieci neuronowe | Z | 30 | 15 | 15 | 2 | | | | | | | | | | | | | 15 | 15 | 2 | | | |
| 6 | Wykład specjalistyczny | E | 30 | 30 | | 2 | | | | | | | | | | | | | 30 | | 2 | | | |
| TOTAL Grupa modułów dla specjalności: | | | 270 | 105 | 165 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 45 | 7 | 60 | 120 | 14 |

Praktyki

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | |
|------------------------|----------|-----|------------------|----------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|----------|------------|----------|----------|----------|----------|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | |
| 1 | Praktyki | Z | 120 | | 120 | 4 | | | | | | | | | | 120 | 4 | | | | |
| TOTAL Praktyki: | | | 120 | 0 | 120 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 4 | 0 | 0 | 0 |

Inne wymagania

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | | |
|-----|--|-----|------------------|----|----|------------|------------|------------|------------|------------|------------|------------|--------|---|---|----|----|---|--|--|--|--|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | | |
| 1 | WF | Z | 60 | | 60 | 0 | | 30 | | 30 | | | | | | | | | | | | |
| 2 | Ochrona własności intelektualnej; BHP, ergonomia | Z | 15 | 15 | | 1 | 15 | | 1 | | | | | | | | | | | | | |
| 3 | Technologia informacyjna | Z | 30 | | 30 | 2 | | 30 | 2 | | | | | | | | | | | | | |
| 4 | Lektorat języka angielskiego cz. I | Z | 30 | | 30 | 2 | | | | | 30 | 2 | | | | | | | | | | |
| 5 | Przedmiot z obszaru nauk społecznych | Z | 30 | 30 | | 2 | | | | 30 | | 2 | | | | | | | | | | |
| 6 | Lektorat języka angielskiego cz. II | Z | 30 | | 30 | 2 | | | | | | | 30 | 2 | | | | | | | | |
| 7 | Lektorat języka angielskiego cz. III | Z | 30 | | 30 | 2 | | | | | | | | | | | 30 | 2 | | | | |
| 8 | Przedmiot z obszaru nauk humanistycznych | Z | 30 | 30 | | 3 | | | | | | | | | | 30 | | 3 | | | | |
| 9 | Wstęp do przedsiębiorczości | Z | 30 | 30 | | 1 | | | | | | | | | | 30 | | 1 | | | | |

A

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | | | | |
|-----------------|---|-----|------------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | | | | |
| 28 | Immunologia | Z | 30 | 15 | 15 | 2 | | | | | | | | | | 15 | 15 | 2 | | | | | | |
| 29 | Metody eksperymentalne z biofizyki molekularnej | E | 75 | 30 | 45 | 5 | | | | | | | | | | 30 | 45 | 5 | | | | | | |
| 30 | Wstęp do biofizyki molekularnej cz. 2 | E | 60 | 30 | 30 | 5 | | | | | | | | | | 30 | 30 | 5 | | | | | | |
| TOTAL A: | | | 1845 | 725 | 1120 | 138 | 90 | 225 | 27 | 165 | 225 | 30 | 150 | 240 | 26 | 135 | 240 | 28 | 90 | 60 | 13 | 95 | 130 | 14 |

Grupa modułów dla specjalności

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | | | | |
|--|---|-----|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|-----------|------------|-----------|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | | | | |
| 1 | Biofizyka białek i błon komórkowych | E | 30 | 15 | 15 | 3 | | | | | | | | | | 15 | 15 | 3 | | | | | | |
| 2 | Wybrane metody analityczne w badaniach układów biologicznych | E | 45 | 15 | 30 | 4 | | | | | | | | | | 15 | 30 | 4 | | | | | | |
| 3 | Biofizyka tkanek. Molekularne procesy zachodzące w tkance nerwowej i mięśniowej | Z | 30 | 15 | 15 | 2 | | | | | | | | | | | | | 15 | 15 | 2 | | | |
| 4 | EPR w badaniach układów biologicznych | Z | 30 | 15 | 15 | 2 | | | | | | | | | | | | | 15 | 15 | 2 | | | |
| 5 | Seminarium dyplomowe, pracownia dyplomowa, wykonanie pracy | Z | 90 | | 90 | 8 | | | | | | | | | | | | | | 90 | 8 | | | |
| 6 | Wykład specjalistyczny | E | 30 | 30 | | 2 | | | | | | | | | | | | | 30 | | 2 | | | |
| TOTAL Grupa modułów dla specjalności: | | | 255 | 90 | 165 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 45 | 7 | 60 | 120 | 14 |

Praktyki

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | | |
|------------------------|----------|-----|------------------|----------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | | |
| 1 | Praktyki | Z | 120 | | 120 | 4 | | | | | | | | | | 120 | 4 | | | | | |
| TOTAL Praktyki: | | | 120 | 0 | 120 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 4 | 0 | 0 | 0 | 0 |

Inne wymagania

| No. | Module | E/C | form of teaching | | | Total ECTS | year 1 | | | year 2 | | | year 3 | | | | | | | | | |
|-----|--|-----|------------------|----|----|------------|------------|------------|------------|------------|------------|------------|--------|----|---|--|----|---|--|--|--|--|
| | | | Total | L | O | | semester 1 | semester 2 | semester 3 | semester 4 | semester 5 | semester 6 | | | | | | | | | | |
| | | | L | O | E | | L | O | E | L | O | E | L | O | E | | | | | | | |
| 1 | WF | Z | 60 | | 60 | 0 | | 30 | | | 30 | | | | | | | | | | | |
| 2 | Ochrona własności intelektualnej; BHP, ergonomia | Z | 15 | 15 | | 1 | 15 | | 1 | | | | | | | | | | | | | |
| 3 | Technologia informacyjna | Z | 30 | | 30 | 2 | | 30 | 2 | | | | | | | | | | | | | |
| 4 | Lektorat języka angielskiego cz. I | Z | 30 | | 30 | 2 | | | | | 30 | 2 | | | | | | | | | | |
| 5 | Przedmiot z obszaru nauk społecznych | Z | 30 | 30 | | 2 | | | | | 30 | 2 | | | | | | | | | | |
| 6 | Lektorat języka angielskiego cz. II | Z | 30 | | 30 | 2 | | | | | | | | 30 | 2 | | | | | | | |
| 7 | Lektorat języka angielskiego cz. III | Z | 30 | | 30 | 2 | | | | | | | | | | | 30 | 2 | | | | |
| 8 | Przedmiot z obszaru nauk humanistycznych | Z | 30 | 30 | | 3 | | | | | | | | | | | 30 | 3 | | | | |
| 9 | Wstęp do przedsiębiorczości | Z | 30 | 30 | | 1 | | | | | | | | | | | 30 | 1 | | | | |

