

KIERUNEK STUDIÓW: **Biomechanika inżynierska**
 SPECJALNOŚĆ:
 POZIOM KSZTAŁCENIA: **studia drugiego stopnia**
 PROGRAM STUDIÓW: **W10-BMIP-000P-OSMW3**

OBOWIĄZUJE OD CYKLU KSZTAŁCENIA: **2023/24-L**
 FORMA STUDIÓW: **stacjonarna**
 JĘZYK PROWADZENIA STUDIÓW: **polski**

| Zastosowanie inżynierii odwrotnej w medycynie W10BMI-SM0034 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 2 | | | | ZZU | 15 | | 30 | | | | <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | | ZZU | | | | | | | <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | | ZZU | | | | | | |
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| Neurorehabilitacja W10BMI-SM0040 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>30</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | | | | | ZZU | 30 | | | | | | Metody badań biomateriałów W10BMI-SM0045 K E <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>3</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>30</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 3 | | 2 | | | | ZZU | 30 | | 30 | | | | Zarządzanie logistyczne w medycynie W10BMI-SM0053 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | | | | ZZU | 15 | | | | | |
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| Języki programowania W10BMI-SM0041 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | 2 | | | | ZZU | | | 30 | | | | Biomechanika układu stomatognatycznego W10BMI-SM0046 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>30</td> <td></td> <td>15</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | 1 | | | | ZZU | 30 | | 15 | | | | Mechanika materiałów smart W10BMI-SM0054 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>15</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 1 | | | | ZZU | 15 | | 15 | | | |
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| Zagadnienia nieliniowe w MES W10BMI-SM0042 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 2 | | | | ZZU | 15 | | 30 | | | | Projekt technologiczny zindywidualizowanego implantu W10BMI-SM0047 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | 3 | | | | ZZU | | | 30 | | | | Podstawy negocjacji W08BMI-SM0004 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | | | | ZZU | 15 | | | | | |
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| Przetwarzanie obrazów i wizualizacja VR w medycynie W10BMI-SM0043 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 2 | | | | ZZU | 15 | | 30 | | | | Sztuczna inteligencja w inżynierii biomedycznej W10BMI-SM0048 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td>15</td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | 1 | | | ZZU | 15 | | | 15 | | | Autoprezentacja W08BMI-SM0005 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | | | | | ZZU | 15 | | | | | |
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| Zarządzanie biznesem W08BMI-SM0003 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | | | | | ZZU | 15 | | | | | | Język obcy II SJO-SM0001 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | | | | ZZU | 15 | | | | | | Seminarium dyplomowe W10BMI-SM0055 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td>30</td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | 2 | | | ZZU | | | | 30 | | |
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| Język obcy I SJO-SM0002 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>45</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | | | | | ZZU | 45 | | | | | | PRACA DYPLOMOWA I W10BMI-SM0049 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | 1 | | ZZU | | | | | 3 | | PRACA DYPLOMOWA II W10BMI-SM0056 K <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | 12 | ZZU | | | | | | 7 |
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"K" - Przedmiot kierunkowy "S" - Przedmiot specjalistyczny "E" - Wykład kończy się egzaminem
 W - wykład, C - ćwiczenia, L - laboratorium, P - projekt, S - seminarium, D - dzieło

BLOKI WYBIERALNE KIERUNKOWE

KIERUNEK STUDIÓW: **Biomechanika inżynierska**
 SPECJALNOŚĆ:
 POZIOM KSZTAŁCENIA: **studia drugiego stopnia**
 PROGRAM STUDIÓW: **W10-BMIP-000P-OSMW3**

OBOWIĄZUJE OD CYKLU KSZTAŁCENIA: **2023/24-L**
 FORMA STUDIÓW: **stacjonarna**
 JĘZYK PROWADZENIA STUDIÓW: **polski**

| Blok wybier. 1 BMI-SM2W-0002 | Projektowanie i wytwarzanie elementów z tworzyw sztucznych dla medycyny W10BMI-SM0057 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td>15</td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | 1 | | | ZZU | 15 | | | 15 | | | Tworzywa sztuczne jako materiał konstrukcyjny dla medycyny W10BMI-SM0058 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td>15</td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | 1 | | | ZZU | 15 | | | 15 | | | <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | | ZZU | | | | | | |
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| Blok wybier. 2 BMI-SM2W-0003 | Modelowanie bioprzepływów W10BMI-SM0059 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 2 | | | | ZZU | 15 | | 30 | | | | Metody numeryczne w biomechanice wypadków W10BMI-SM0060 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 2 | | | | ZZU | 15 | | 30 | | | | <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | | ZZU | | | | | | |
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| Blok wybier. 3 BMI-SM2W-0004 | Teoria i metody optymalizacji W10BMI-SM0061 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>30</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | 2 | | | | ZZU | 30 | | 30 | | | | Inżynieria powierzchni biomateriałów W10BMI-SM0062 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>30</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | 2 | | | | ZZU | 30 | | 30 | | | | Podstawy mechaniki pękania W10BMI-SM0063 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>30</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 2 | | 2 | | | | ZZU | 30 | | 30 | | | |
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| Blok wybier. 4 BMI-SM2W-0005 | Techniki ultradźwiękowe w medycynie W10BMI-SM0064 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td></td> <td>15</td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | | 1 | | ZZU | 15 | | | | 15 | | Sprzęt i metody rehabilitacji W10BMI-SM0065 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td></td> <td>15</td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | | 1 | | ZZU | 15 | | | | 15 | | <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | | ZZU | | | | | | |
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| Blok wybier. 5 BMI-SM3W-0002 | Zaawansowane techniki sterowania robotami W10BMI-SM0066 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td>15</td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | 1 | | | ZZU | 15 | | | 15 | | | Programowanie robotów W10BMI-SM0067 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td></td> <td>15</td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | | 1 | | | ZZU | 15 | | | 15 | | | <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | | ZZU | | | | | | |
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| Blok wybier. 6 BMI-SM3W-0003 | Elementy biomechaniki sportu W10BMI-SM0068 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>15</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 1 | | | | ZZU | 15 | | 15 | | | | Techniki implantacyjne W10BMI-SM0069 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>15</td> <td></td> <td>15</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | 1 | | 1 | | | | ZZU | 15 | | 15 | | | | <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | W | C | L | P | S | D | ECTS | | | | | | | ZZU | | | | | | |
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| ZZU | 15 | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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