

Załącznik 2. - Przewidywany harmonogram realizacji programu studiów w poszczególnych semestrach i latach cyklu kształcenia

| PLAN STUDIÓW STACJONARNYCH                  |                                                                           |                                                                |               | Rekrutacja w roku akademickim 2023/2024 |                  |             |    | Uniwersytet Zielonogórski |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
|---------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------|---------------|-----------------------------------------|------------------|-------------|----|---------------------------|----|------------------|------------------|-------------|----|-----------|----|------------------|------|------------------|------|---|----|------------------|------|-------------|------------------|-----------|---|------------------|------|-------------|----|------------------|------|------------------|------|---|---|---|------------------|------|
| Nazwa kierunku studiów: Inżynieria lotnicza |                                                                           |                                                                |               | czas trwania: 8 semestrów               |                  |             |    | WYDZIAŁ MECHANICZNY       |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| Forma studiów: stacjonarne I-go stopnia     |                                                                           |                                                                |               |                                         |                  |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 06.1-WM-IL-SP_22                            |                                                                           |                                                                |               |                                         |                  |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| LP.                                         |                                                                           | NAZWA PRZEDMIOTU                                               | Liczba godzin | ECTS                                    | Forma zaliczenia | SEMESTR 1   |    |                           |    | SEMESTR 2        |                  |             |    | SEMESTR 3 |    |                  |      | SEMESTR 4        |      |   |    | SEMESTR 5        |      |             |                  | SEMESTR 6 |   |                  |      | SEMESTR 7   |    |                  |      | SEMESTR 8        |      |   |   |   |                  |      |
|                                             | 1                                                                         |                                                                |               |                                         |                  | Forma zajęć |    |                           |    | Forma zaliczenia | ECTS             | Forma zajęć |    |           |    | Forma zaliczenia | ECTS | Forma zajęć      |      |   |    | Forma zaliczenia | ECTS | Forma zajęć |                  |           |   | Forma zaliczenia | ECTS | Forma zajęć |    |                  |      | Forma zaliczenia | ECTS |   |   |   |                  |      |
|                                             |                                                                           |                                                                |               |                                         |                  | W           | Ć  | L                         | P  | S                | Forma zaliczenia | ECTS        | W  | Ć         | L  | P                | S    | Forma zaliczenia | ECTS | W | Ć  | L                | P    | S           | Forma zaliczenia | ECTS      | W | Ć                | L    | P           | S  | Forma zaliczenia | ECTS | W                | Ć    | L | P | S | Forma zaliczenia | ECTS |
| 1.                                          | Moduł kierunkowy - obowiązkowy                                            | Fizyka                                                         | 75            | 6                                       | E                | 30          | 30 | 15                        |    |                  | E                | 6           |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 2.                                          |                                                                           | Inżynieria wytwarzania I                                       | 60            | 5                                       | E                | 30          |    | 30                        |    |                  | E                | 5           |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 3.                                          |                                                                           | Matematyka I                                                   | 60            | 5                                       | E                | 30          | 30 |                           |    |                  | E                | 5           |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 4.                                          |                                                                           | Mechanika techniczna I                                         | 75            | 5                                       | ZO               | 30          | 30 | 15                        |    |                  | ZO               | 5           |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 5.                                          |                                                                           | Nauka o materiałach lotniczych I - (metale)                    | 60            | 4                                       | ZO               | 30          |    | 30                        |    |                  | ZO               | 4           |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 6.                                          |                                                                           | Grafika inżynierska i zapis konstrukcji                        | 45            | 3                                       | ZO               | 15          |    |                           | 30 |                  | ZO               | 3           |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 7.                                          |                                                                           | Technologia informacyjna                                       | 30            | 2                                       | ZO               |             | 30 |                           |    |                  | ZO               | 2           |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 8.                                          |                                                                           | Podstawy elektrotechniki                                       | 60            | 4                                       | ZO               |             |    |                           |    |                  |                  |             | 30 |           | 30 |                  |      |                  | ZO   | 4 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 9.                                          |                                                                           | Inżynieria wytwarzania II                                      | 60            | 4                                       | ZO               |             |    |                           |    |                  |                  |             | 30 |           | 30 |                  |      |                  | ZO   | 4 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 10.                                         |                                                                           | Język angielski I                                              | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    | 30               |      |                  | ZO   | 2 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 12.                                         |                                                                           | Matematyka II                                                  | 60            | 5                                       | E                |             |    |                           |    |                  |                  |             | 30 | 30        |    |                  |      |                  | E    | 5 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 13.                                         |                                                                           | Mechanika techniczna II                                        | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             | 15 | 15        |    |                  |      |                  | ZO   | 2 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 14.                                         |                                                                           | Nauka o materiałach lotniczych II (kompozyty, drewno, tkaniny) | 60            | 5                                       | E                |             |    |                           |    |                  |                  |             | 30 |           | 30 |                  |      |                  | E    | 5 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 15.                                         |                                                                           | Wytrzymałość materiałów i konstrukcji                          | 60            | 6                                       | E                |             |    |                           |    |                  |                  |             | 30 | 15        | 15 |                  |      |                  | E    | 6 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 16.                                         |                                                                           | Komputerowe wspomaganie projektowania CAD                      | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           | 30 |                  |      |                  | ZO   | 2 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 17.                                         |                                                                           | Podstawy elektroniki                                           | 45            | 5                                       | E                |             |    |                           |    |                  |                  |             |    |           | 15 | 30               |      |                  | E    | 5 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 18.                                         |                                                                           | Podstawy metrologii                                            | 45            | 3                                       | ZO               |             |    |                           |    |                  |                  |             |    |           | 15 | 30               |      |                  | ZO   | 3 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 19.                                         |                                                                           | Język angielski II                                             | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    | 30               |      |                  | ZO   | 2 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 21.                                         |                                                                           | Mechanika płynów                                               | 60            | 6                                       | E                |             |    |                           |    |                  |                  |             |    |           | 30 | 15               | 15   |                  | E    | 6 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 22.                                         |                                                                           | Podstawy Konstrukcji Maszyn                                    | 60            | 5                                       | E                |             |    |                           |    |                  |                  |             |    |           | 30 |                  | 30   |                  | E    | 5 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 23.                                         |                                                                           | Konstrukcja statków powietrznych I                             | 45            | 3                                       | ZO               |             |    |                           |    |                  |                  |             |    |           | 15 | 15               | 15   |                  | ZO   | 3 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 24.                                         |                                                                           | Komputerowe wspomaganie wytwarzania CAM                        | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    | 30               |      |                  | ZO   | 2 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 25.                                         |                                                                           | Termodynamika techniczna                                       | 45            | 4                                       | E                |             |    |                           |    |                  |                  |             |    |           | 30 |                  | 15   |                  | E    | 4 |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 26.                                         |                                                                           | Aerodynamika                                                   | 45            | 5                                       | E                |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   | 15 | 15               | 15   |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 27.                                         |                                                                           | Język angielski III                                            | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  | 30   |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 29.                                         |                                                                           | Konstrukcja statków powietrznych II                            | 90            | 7                                       | E                |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   | 30 |                  | 30   | 30          |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 30.                                         |                                                                           | Informatyka w zastosowaniach inżynierskich                     | 45            | 4                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   | 15 |                  | 30   |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 31.                                         |                                                                           | Podstawy automatyki                                            | 60            | 6                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   | 30 | 15               | 15   |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 32.                                         |                                                                           | Wychowanie fizyczne                                            | 60            |                                         | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    | 60               |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 33.                                         |                                                                           | Wyposażenie pokładowe samolotów                                | 60            | 6                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   | 30 |                  | 30   |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 34.                                         |                                                                           | Mechanika lotu                                                 | 75            | 5                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   | 30               | 30   | 15          |    |                  |      |                  |      |   |   |   |                  |      |
| 35.                                         |                                                                           | Ergonomia w inżynierii lotniczej                               | 15            | 1                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   | 15               |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 36.                                         |                                                                           | Eksploatacja statków powietrznych                              | 60            | 6                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   | 30               |      | 30          |    |                  |      |                  |      |   |   |   |                  |      |
| 37.                                         |                                                                           | Język angielski IV                                             | 30            | 3                                       | E                |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  | 30   |             |    |                  |      |                  |      |   |   |   |                  |      |
| 38.                                         |                                                                           | Silniki lotnicze                                               | 60            | 6                                       | E                |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  | 30   |             | 30 |                  |      |                  |      |   |   |   |                  |      |
| 40.                                         |                                                                           | Prawo i przepisy lotnicze                                      | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  | 30   |             |    |                  |      |                  |      |   |   |   |                  |      |
| 41.                                         |                                                                           | Wybrane zagadnienia MTO                                        | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   | 30               |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 42.                                         |                                                                           | Zespoły napędowe samolotów                                     | 60            | 5                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   | 30               |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 43.                                         |                                                                           | Praktyka zawodowa                                              |               | 30                                      | zaliczenie       |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      | 30          | 15 | 15               |      |                  |      |   |   |   |                  |      |
| 44.                                         |                                                                           | Podstawy przedsiębiorczości                                    | 45            | 3                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 45.                                         |                                                                           | Czynnik ludzki w lotnictwie                                    | 45            | 4                                       | E                |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 46.                                         |                                                                           | Zarządzanie środowiskiem i ekologia                            | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 47.                                         |                                                                           | Ochrona własności intelektualnej                               | 15            | 1                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |
| 48.                                         | Moduł specjalnościowy - wybieralny<br>Mechanika i Obsługa Lotnicza (MiOL) | Układy sterowania samolotów                                    | 30            | 2                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   | 15               |      | 15          |    |                  |      |                  |      |   |   |   |                  |      |
| 49.                                         |                                                                           | Diagnostyka silników lotniczych i samolotów                    | 45            | 4                                       | ZO               |             |    |                           |    |                  |                  |             |    |           |    |                  |      |                  |      |   |    |                  |      |             |                  |           |   |                  |      |             |    |                  |      |                  |      |   |   |   |                  |      |