

| moduły                               |                                                                            | ogółem godzin/<br>pkt ECTS |      | ECTS<br>zajęcia<br>prakt. | ECTS<br>udział NA | w tym godzin: |        |      |         |        | liczba godzin/rygor/pkt ECTS w semestrze: |      |       |      |       |      |       |      |       |      |       |      |       |      | jednostka organizacyjna<br>(instytut/katedra)<br>odpowiedzialna za moduł |    |    |   |           |                 |
|--------------------------------------|----------------------------------------------------------------------------|----------------------------|------|---------------------------|-------------------|---------------|--------|------|---------|--------|-------------------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--------------------------------------------------------------------------|----|----|---|-----------|-----------------|
|                                      |                                                                            | I                          |      |                           |                   |               |        |      |         |        | II                                        |      | III   |      | IV    |      | V     |      | VI    |      | VII   |      |       |      |                                                                          |    |    |   |           |                 |
|                                      |                                                                            | godz.                      | ECTS |                           |                   | wykł.         | ćwicz. | lab. | projekt | semin. | godz.                                     | ECTS | godz. | ECTS | godz. | ECTS | godz. | ECTS | godz. | ECTS | godz. | ECTS | godz. | ECTS |                                                                          |    |    |   |           |                 |
| A. moduły ogólne                     |                                                                            |                            |      |                           |                   | 332           | 17     |      |         | 96     | 206                                       | 24   |       | 6    | 64    | 2    | 30    |      | 44    | 3    | 30    | 2    | 60    | 3    | 60                                                                       | 4  | 44 | 3 |           |                 |
| 1                                    | bezpieczeństwo i higiena pracy (BHP)                                       | 4                          | 0    |                           |                   | 4             |        |      |         |        |                                           |      |       | 4    | +     | 0    |       |      |       |      |       |      |       |      |                                                                          |    |    |   | ZBiHP     |                 |
| 2                                    | ergonomia i ochrona pracy                                                  | 14                         | 1    | 1                         | 0,5               | 8             |        | 4    |         | 2      |                                           |      |       |      |       |      |       |      |       |      |       |      |       |      |                                                                          | 14 | +  | 1 | WME/IPMIT |                 |
| 3                                    | filozofia                                                                  | 30                         | 2    |                           |                   | 16            | 14     |      |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      |       |      |                                                                          | 30 | +  | 2 | WCY / WEL |                 |
| 4                                    | Historia Polski-wybrane aspekty 1                                          | 30                         | 1    | 0,5                       | 1                 | 24            | 6      |      |         |        |                                           |      |       |      |       |      |       |      |       |      | 30    | +    | 1     |      |                                                                          |    |    |   | WCY       |                 |
| 5                                    | Historia Polski-wybrane aspekty 2                                          | 30                         | 2    | 1                         | 1                 | 24            | 6      |      |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      |       | 30   | X                                                                        | 2  |    |   | WCY       |                 |
| 6                                    | podstawy normalizacji oraz ochrony własności intelektualnej i przemysłowej | 14                         | 1    | 0,6                       | 0,5               | 10            |        |      |         | 4      |                                           |      |       |      |       | 14   | +     | 1    |       |      |       |      |       |      |                                                                          |    |    |   |           | WEL / ISE       |
| 7                                    | technologia informacyjna                                                   | 30                         | 2    | 1,7                       | 1,3               | 10            |        | 20   |         |        | 30                                        | +    | 2     |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WEL / IRE       |
| 8                                    | wychowanie fizyczne 1, 2                                                   | 60                         | 0    |                           |                   |               | 60     |      |         |        | 30                                        | +    |       | 30   | +     |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | SWF             |
| język obcy do wyboru <sup>1)</sup> : |                                                                            |                            |      |                           |                   | 120           | 8      |      |         |        | 120                                       |      |       |      |       |      |       | 30   | 2     | 30   | 2     | 30   | 2     | 30   | 2                                                                        |    |    |   |           |                 |
| 9                                    | język angielski 1, 2, 3, 4                                                 | 120                        | 8    |                           | 2                 |               | 120    |      |         |        |                                           |      |       |      |       |      |       | 30   | +     | 2    | 30    | +    | 2     | 30   | +                                                                        | 2  |    |   |           | SJO             |
| 10                                   | język niemiecki 1, 2, 3, 4                                                 |                            |      |                           | 8                 |               |        |      |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           |                 |
| 11                                   | język francuski 1, 2, 3, 4                                                 |                            |      |                           | 8                 |               |        |      |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           |                 |
| 12                                   | język rosyjski 1, 2, 3, 4                                                  |                            |      |                           | 8                 |               |        |      |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           |                 |
| B. moduły podstawowe                 |                                                                            |                            |      |                           |                   | 578           | 52     |      |         | 278    | 210                                       | 90   |       |      | 270   | 25   | 238   | 20   | 70    | 7    |       |      |       |      |                                                                          |    |    |   |           |                 |
| 1                                    | matematyka 1                                                               | 60                         | 6    |                           |                   | 26            | 34     |      |         |        | 60                                        | X    | 6     |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WCY             |
|                                      | matematyka 2                                                               | 60                         | 6    |                           |                   | 30            | 30     |      |         |        | 60                                        | X    | 6     |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WCY             |
| 2                                    | matematyka 3                                                               | 40                         | 4    |                           |                   | 20            | 20     |      |         |        |                                           |      |       | 40   | X     | 4    |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WCY             |
| 3                                    | chemia                                                                     | 60                         | 5    |                           | 2,5               | 32            | 12     | 16   |         |        | 60                                        | +    | 5     |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WTC             |
| 4                                    | elektrotechnika                                                            | 74                         | 6    | 4,0                       | 3,0               | 30            | 20     | 24   |         |        |                                           |      |       | 74   | X     | 6    |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WEL / ISE       |
| 5                                    | fizyka 1                                                                   | 80                         | 6    | 1,5                       | 2,5               | 40            | 30     | 10   |         |        |                                           |      |       | 80   | X     | 6    |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WTC             |
|                                      | fizyka 2                                                                   | 40                         | 4    | 1,0                       | 1,5               | 20            | 10     | 10   |         |        |                                           |      |       |      |       |      | 40    | X    | 4     |      |       |      |       |      |                                                                          |    |    |   |           | WTC             |
| 6                                    | grafika inżynierska                                                        | 30                         | 3    | 2,0                       | 1,0               | 12            | 18     |      |         |        | 30                                        | +    | 3     |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WME/IBM         |
| 7                                    | materiały konstrukcyjne                                                    | 60                         | 5    | 2,0                       | 3,0               | 30            |        | 30   |         |        | 60                                        | X    | 5     |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WTC             |
| 8                                    | mechanika techniczna 1                                                     | 44                         | 4    | 3,0                       | 1,5               | 22            | 22     |      |         |        |                                           |      |       | 44   | +     | 4    |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WME/KMIIS       |
|                                      | mechanika techniczna 2                                                     | 30                         | 3    | 2,0                       | 1,0               | 16            | 14     |      |         |        |                                           |      |       |      |       |      | 30    | +    | 3     |      |       |      |       |      |                                                                          |    |    |   |           | WME/KMIIS       |
| C. moduły kierunkowe                 |                                                                            |                            |      |                           |                   | 704           | 57     |      |         | 368    | 106                                       | 160  |       | 70   |       |      | 118   | 10   | 254   | 20   | 106   | 8    | 90    | 7    | 106                                                                      | 10 | 30 | 2 |           |                 |
| 1                                    | automatyka                                                                 | 60                         | 5    | 4,5                       | 2,5               | 30            | 10     | 20   |         |        |                                           |      |       |      |       | 60   | X     | 5    |       |      |       |      |       |      |                                                                          |    |    |   |           | WEL / ISE       |
| 2                                    | eksploatacja urządzeń elektroenergetycznych                                | 30                         | 3    | 2,5                       | 1,0               | 16            |        |      |         | 14     |                                           |      |       |      |       |      |       |      |       |      |       |      |       | 30   | +                                                                        | 3  |    |   |           | WEL / ISE       |
| 3                                    | elektronika                                                                | 60                         | 5    | 4,0                       | 2,0               | 30            |        | 30   |         |        |                                           |      |       |      |       | 60   | X     | 5    |       |      |       |      |       |      |                                                                          |    |    |   |           | WEL / ISE       |
| 4                                    | gospodarka energetyczna                                                    | 46                         | 4    | 3,0                       | 2,0               | 26            |        |      |         | 20     |                                           |      |       |      |       |      |       |      |       |      |       |      |       |      | 46                                                                       | X  | 4  |   |           | WEL / ISE       |
| 5                                    | maszyny elektryczne                                                        | 74                         | 6    | 6,0                       | 3,0               | 34            | 16     | 24   |         |        |                                           |      |       |      |       | 74   | X     | 6    |       |      |       |      |       |      |                                                                          |    |    |   |           | WEL / ISE       |
| 6                                    | materiały eksploatacyjne                                                   | 30                         | 3    | 2,0                       | 1,0               | 14            |        | 10   |         | 6      |                                           |      |       | 30   | +     | 3    |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WME/IPMIT       |
| 7                                    | mechanika płynów 1                                                         | 44                         | 3    |                           | 1,8               | 24            | 20     |      |         |        |                                           |      |       | 44   | +     | 3    |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WML             |
|                                      | mechanika płynów 2                                                         | 30                         | 2    | 0,5                       | 1,5               | 14            |        | 16   |         |        |                                           |      |       |      |       | 30   | +     | 2    |       |      |       |      |       |      |                                                                          |    |    |   |           | WML             |
| 8                                    | ochrona środowiska w energetyce                                            | 30                         | 3    |                           | 3,0               | 16            |        | 14   |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      | 30    | +    | 3                                                                        |    |    |   |           | IOE / WEL       |
| 9                                    | odnawialne źródła energii                                                  | 30                         | 3    | 2,0                       | 1,0               | 16            | 6      | 8    |         |        |                                           |      |       |      |       |      |       |      | 30    | +    | 3     |      |       |      |                                                                          |    |    |   |           | WME/IPMIT       |
| 10                                   | projektowanie w energetyce                                                 | 46                         | 4    | 3,0                       | 2,0               | 20            | 26     |      |         |        |                                           |      |       |      |       |      |       | 46   | x     | 4    |       |      |       |      |                                                                          |    |    |   |           | WME/IBM         |
| 11                                   | prowadzenie działalności przedsiębiorstwa energetycznego na rynku          | 30                         | 2    |                           | 1,0               | 30            |        |      |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      |       |      | 30                                                                       | +  | 2  |   |           | WEL / WME/IPMIT |
| 12                                   | przesyłanie energii elektrycznej                                           | 60                         | 4    | 3,5                       | 2,0               | 30            |        |      |         | 30     |                                           |      |       |      |       |      |       |      |       |      | 60    | X    | 4     |      |                                                                          |    |    |   |           | WEL / ISE       |
| 13                                   | technologie maszyn energetycznych                                          | 60                         | 4    | 4,0                       | 2,5               | 30            | 16     | 14   |         |        |                                           |      |       |      |       |      |       | 60   | X     | 4    |       |      |       |      |                                                                          |    |    |   |           | WME/IPMIT       |
| 14                                   | termodynamika techniczna 1                                                 | 44                         | 4    | 2,5                       | 2,0               | 28            | 6      | 10   |         |        |                                           |      |       | 44   | X     | 4    |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WML             |
|                                      | termodynamika techniczna 2                                                 | 30                         | 2    | 1,5                       | 1,0               | 10            | 6      | 14   |         |        |                                           |      |       |      |       | 30   | +     | 2    |       |      |       |      |       |      |                                                                          |    |    |   |           | WML             |
| D. moduły specjalistyczne/wyberane   |                                                                            |                            |      |                           |                   | 844           | 53     |      |         | 448    | 50                                        | 262  | 34    | 50   | 30    | 3    |       |      |       |      | 282   | 18   | 326   | 19   | 206                                                                      | 13 |    |   |           |                 |
| moduły specjalistyczne wspólne       |                                                                            |                            |      |                           |                   | 106           | 8      |      |         | 52     |                                           | 38   |       | 16   | 30    | 3    |       |      |       |      | 16    | 1    | 30    | 2    | 30                                                                       | 2  |    |   |           |                 |
| 1                                    | bezpieczeństwo użytkowania urządzeń elektrycznych                          | 16                         | 1    | 1                         | 0,5               | 12            |        |      |         | 4      |                                           |      |       |      |       |      |       |      |       | 16   | +     | 1    |       |      |                                                                          |    |    |   |           | WEL/ISE         |
| 2                                    | podstawy metrologii                                                        | 30                         | 3    | 2,0                       | 1,0               | 10            |        | 20   |         |        | 30                                        | +    | 3     |      |       |      |       |      |       |      |       |      |       |      |                                                                          |    |    |   |           | WEL/ISE         |
| 3                                    | podstawy wymiany ciepła                                                    | 30                         | 2    | 1,5                       | 1,0               | 14            |        | 6    |         | 10     |                                           |      |       |      |       |      |       |      |       |      | 30    | +    | 2     |      |                                                                          |    |    |   |           | WML             |
| 4                                    | podstawy techniki wysokich napięć                                          | 30                         | 2    | 1,0                       | 1,0               | 16            |        | 12   |         | 2      |                                           |      |       |      |       |      |       |      |       |      |       |      |       | 30   | +                                                                        | 2  |    |   |           | WEL/ISE         |
| pozostałe moduły specjalistyczne     |                                                                            |                            |      |                           |                   | 650           | 41     |      |         | 352    | 50                                        | 180  | 34    | 34   |       |      |       |      |       | 266  | 17    | 296  | 17    | 88   | 7                                                                        |    |    |   |           |                 |
| 5                                    | aparaty elektryczne                                                        | 44                         | 3    | 2,0                       | 2,0               | 28            |        |      |         | 16     |                                           |      |       |      |       |      |       |      |       |      | 44    | X    | 3     |      |                                                                          |    |    |   |           | WEL/ISE         |
| 6                                    | cyfrowe przetwarzanie sygnałów                                             | 44                         | 3    | 2,0                       | 2,0               | 28            | 16     |      |         |        |                                           |      |       |      |       |      |       |      |       |      |       |      | 44    | +    | 3                                                                        |    |    |   |           | WEL/ISE         |
| 7                                    | energoelektronika                                                          | 44                         | 3    | 2,5                       | 2,0               | 24            |        | 20   |         |        |                                           |      |       |      |       |      |       | 44   | X     | 3    |       |      |       |      |                                                                          |    |    |   |           | WEL/ISE         |
| 8                                    | instalacje elektryczne                                                     | 44                         | 2    | 2,0                       | 1,5               | 24            |        |      | 20      |        |                                           |      |       |      |       |      |       |      |       |      | 44    | +    | 2     |      |                                                                          |    |    |   |           | WEL/ISE         |
| 9                                    | inteligentne instalacje elektryczne                                        | 30                         | 2    | 1,5                       | 1,0               | 14            |        | 16   |         |        |                                           |      |       |      |       |      |       |      |       |      | 30    | X    | 2     |      |                                                                          |    |    |   |           | WEL/ISE         |
| 10                                   | jakość energii elektrycznej                                                | 44                         | 2    | 1,5                       | 1,5               | 30            |        | 8    |         | 6      |                                           |      |       |      |       |      |       |      |       |      | 44    | +    | 2     |      |                                                                          |    |    |   |           | WEL/ISE         |
| 11                                   | kompatybilność elektromagnetyczna w energetyce                             | 30                         | 2    | 1,1                       | 1,8               | 20            |        | 6    |         | 4      |                                           |      |       |      |       |      |       |      |       |      | 30    | +    | 2     |      |                                                                          |    |    |   |           | <               |





Początek od 2018 r.

| moduły                |                                                                            | ogółem godzin/<br>pkt ECTS |      | ECTS<br>zajęcia<br>prakt. | ECTS<br>udział NA | w tym godzin: |      |       |      |       | liczba godzin/rygor/pkt ECTS w semestrze: |       |      |       |      |       |      |       |      |       |      |       |      |       | jedenstka organizacyjna<br>(instytut/katedra)<br>odpowiedzialna za moduł |    |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|----------------------------------------------------------------------------|----------------------------|------|---------------------------|-------------------|---------------|------|-------|------|-------|-------------------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--------------------------------------------------------------------------|----|------|----|---|---|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
|                       |                                                                            |                            |      |                           |                   |               |      |       |      |       | I                                         |       | II   |       | III  |       | IV   |       | V    |       | VI   |       | VII  |       |                                                                          |    |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |                                                                            | godz.                      | ECTS |                           |                   | godz.         | ECTS | godz. | ECTS | godz. | ECTS                                      | godz. | ECTS | godz. | ECTS | godz. | ECTS | godz. | ECTS | godz. | ECTS | godz. | ECTS | godz. |                                                                          |    | ECTS |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| A. moduły ogólne      |                                                                            |                            |      |                           |                   | 332           | 17   |       |      |       | 96                                        | 206   | 24   |       | 6    | 64    | 2    | 30    |      | 44    | 3    | 30    | 2    | 60    | 3                                                                        | 60 | 4    | 44 | 3 |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                     | bezpieczeństwo i higiena pracy (BHP)                                       |                            |      |                           |                   | 4             | 0    |       |      |       | 4                                         |       |      |       |      | 4     | +    | 0     |      |       |      |       |      |       |                                                                          |    |      |    |   |   | ZBiHP     |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                       | ergonomia i ochrona pracy                                                  |                            |      |                           |                   | 14            | 1    | 1     | 0,5  |       | 8                                         |       | 4    |       | 2    |       |      |       |      |       |      |       |      |       |                                                                          |    |      | 14 | + | 1 | WME / WEL |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                     | filozofia                                                                  |                            |      |                           |                   | 30            | 2    |       |      |       | 16                                        | 14    |      |       |      |       |      |       |      |       |      |       |      |       |                                                                          |    |      | 30 | + | 2 | WCY / WEL |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                     | Historia Polski-wybrane aspekty 1                                          |                            |      |                           |                   | 30            | 1    | 0,5   | 1    |       | 24                                        | 6     |      |       |      |       |      |       |      |       |      |       | 30   | +     | 1                                                                        |    |      |    |   |   | WCY       |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                     | Historia Polski-wybrane aspekty 2                                          |                            |      |                           |                   | 30            | 2    | 1     | 1    |       | 24                                        | 6     |      |       |      |       |      |       |      |       |      |       |      |       |                                                                          | 30 | X    | 2  |   |   | WCY       |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                     | podstawy normalizacji oraz ochrony własności intelektualnej i przemysłowej |                            |      |                           |                   | 14            | 1    | 0,6   | 0,5  |       | 10                                        |       |      |       | 4    |       |      |       | 14   | +     | 1    |       |      |       |                                                                          |    |      |    |   |   | WEL / ISE |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                     | technologia informacyjna                                                   |                            |      |                           |                   | 30            | 2    | 1,7   | 1,3  |       | 10                                        |       | 20   |       |      | 30    | +    | 2     |      |       |      |       |      |       |                                                                          |    |      |    |   |   | WEL / IRE |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                     | wychowanie fizyczne 1, 2                                                   |                            |      |                           |                   | 60            | 0    |       |      |       |                                           | 60    |      |       |      | 30    | +    |       | 30   | +     |      |       |      |       |                                                                          |    |      |    |   |   |           | SWF       |  |  |  |  |  |  |  |  |  |  |  |  |
| język obcy do wyboru: |                                                                            |                            |      |                           |                   | 120           | 8    |       |      |       | 120                                       |       |      |       |      |       |      |       | 30   | 2     | 30   | 2     | 30   | 2     | 30                                                                       | 2  |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                     | język angielski 1, 2, 3, 4                                                 |                            |      |                           |                   | 120           | 8    |       |      | 2     |                                           | 120   |      |       |      |       |      |       | 30   | +     | 2    | 30    | +    | 2     | 30                                                                       | +  | 2    |    |   |   |           | SJO       |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                    | język niemiecki 1, 2, 3, 4                                                 |                            |      |                           |                   |               |      | 8     |      |       |                                           |       |      |       |      |       |      |       |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                    | język francuski 1, 2, 3, 4                                                 |                            |      |                           |                   |               |      | 8     |      |       |                                           |       |      |       |      |       |      |       |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                    | język rosyjski 1, 2, 3, 4                                                  |                            |      |                           |                   |               |      | 8     |      |       |                                           |       |      |       |      |       |      |       |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| B. moduły podstawowe  |                                                                            |                            |      |                           |                   | 578           | 52   |       |      |       | 278                                       | 210   | 90   |       |      | 270   | 25   | 238   | 20   | 70    | 7    |       |      |       |                                                                          |    |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                     | matematyka 1                                                               |                            |      |                           |                   | 60            | 6    |       |      |       | 26                                        | 34    |      |       |      | 60    | X    | 6     |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           | WCY       |  |  |  |  |  |  |  |  |  |  |  |  |
|                       | matematyka 2                                                               |                            |      |                           |                   | 60            | 6    |       |      |       | 30                                        | 30    |      |       |      | 60    | X    | 6     |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           | WCY       |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                     | matematyka 3                                                               |                            |      |                           |                   | 40            | 4    |       |      |       | 20                                        | 20    |      |       |      |       |      |       | 40   | X     | 4    |       |      |       |                                                                          |    |      |    |   |   |           | WCY       |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                     | chemia                                                                     |                            |      |                           |                   | 60            | 5    |       |      | 2,5   | 32                                        | 12    | 16   |       |      | 60    | +    | 5     |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           | WTC       |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                     | elektrotechnika                                                            |                            |      |                           |                   | 74            | 6    | 4,0   | 3,0  | 3,0   | 30                                        | 20    | 24   |       |      |       |      |       | 74   | X     | 6    |       |      |       |                                                                          |    |      |    |   |   |           | WEL / ISE |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                     | fizyka 1                                                                   |                            |      |                           |                   | 80            | 6    | 1,5   | 2,5  | 4,0   | 30                                        | 10    | 10   |       |      |       |      |       | 80   | X     | 6    |       |      |       |                                                                          |    |      |    |   |   |           | WTC       |  |  |  |  |  |  |  |  |  |  |  |  |
|                       | fizyka 2                                                                   |                            |      |                           |                   | 40            | 4    | 1,0   | 1,5  | 2,0   | 10                                        | 10    | 10   |       |      |       |      |       |      |       |      | 40    | X    | 4     |                                                                          |    |      |    |   |   |           | WTC       |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                     | grafika inżynierska                                                        |                            |      |                           |                   | 30            | 3    | 2,0   | 1,0  | 1,2   | 18                                        |       |      |       |      | 30    | +    | 3     |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           | WME/IBM   |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                     | materiały konstrukcyjne                                                    |                            |      |                           |                   | 60            | 5    | 2,0   | 3,0  | 3,0   | 30                                        |       | 30   |       |      | 60    | X    |       |      |       |      |       |      |       |                                                                          |    |      |    |   |   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |

Plan studiów uchwalony przez Radę Wydziału Elektroniki w dniu 13 czerwca 2018 r. – Uchwała Nr 186/WEL/2018

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