

| Kod przedmiotu | Lp. | Nazwa przedmiotu | Liczba egzaminów | Liczba zaliczeń | Ogólna liczba godzin |         |           |             | Rozdział zajęć dydaktycznych na semestrze |                |   |   |   |                 |                 |                 |                 |                 |   |     |   |   |                 |                 |                 |                 |                 |   |   |    |   |                 |                 |                 |                 |                 |   |   |   |     |                 |                 |                 |                 |                 |   |   |   | Liczba punktów ECTS |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |          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|                |     |                  |                  |                 | Razem                | w tym   |           |             |                                           | Semestr I      |   |   |   |                 | II              |                 |                 |                 |   | III |   |   |                 |                 | IV              |                 |                 |   |   | V  |   |                 |                 |                 | VI              |                 |   |   |   | VII |                 |                 |                 |                 |                 |   |   |   |                     |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |  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    |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |
|                |     |                  |                  |                 |                      | Wykłady | Ćwiczenia | Laboratoria | Projekty                                  | Liczba zjazdów |   |   |   |                 | 10              |                 |                 |                 |   | 10  |   |   |                 |                 | 10              |                 |                 |   |   | 10 |   |                 |                 |                 | 10              |                 |   |   |   | 10  |                 |                 |                 |                 |                 |   |   |   |                     |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |             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         |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   |   |                 |                 |                 |                 |                 |   |   |   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     |                 |                 |
|                |     |                  |                  |                 |                      |         |           |             |                                           | W              | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C   | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L  | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P   | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L |                     | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> | KA <sub>5</sub> | W | C | L | P | KA <sub>1</sub> 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| KA <sub>1</sub> | KA <sub>2</sub> | KA <sub>3</sub> | KA <sub>4</sub> |

Politechnika Warszawska  
Wydział Budownictwa, Mechaniki i Petrochemii  
Kierunek: **Technologia chemiczna**

**Katalog przedmiotów ogólnowydziałowych do wyboru  
do planu studiów niestacjonarnych pierwszego stopnia  
(profil ogólnoakademicki)**

Uchwała nr 69/2024-2028 RW BMiP PW z dnia 21.04.2026 r.

**WN1A\_11                    Przedmiot ogólnowydziałowy do wyboru - semestr II**

| <i>Kod przedmiotu</i> | <i>Nazwa przedmiotu</i>                                  |
|-----------------------|----------------------------------------------------------|
| WN1A_11/01            | Ochrona przeciwpożarowa                                  |
| WN1A_11/02            | Ochrona środowiska                                       |
| WN1A_11/03            | Redakcja, edycja i formatowanie poprawnego komputeropisu |
| WN1A_11/04            | Energia w gospodarce narodowej                           |
| WN1A_11/05            | Circular economy                                         |
| WN1A_11/06            | Climate changes                                          |