

# POLITECHNIKA KRAKOWSKA IM. TADEUSZA KOŚCIUSZKI

## KARTA PRZEDMIOTU

obowiązuje studentów rozpoczynających studia w roku akademickim 2021/2022

Wydział Inżynierii Lądowej

Kierunek studiów: Budownictwo

Profil: Ogólnoakademicki

Forma studiów: stacjonarne

Kod kierunku: BUD

Stopień studiów: II

Specjalności: Structural Design and Management in Civil Engineering (profile: Construction Technology and Management), Structural Design and Management in Civil Engineering (profile: Structural Design)

### 1 INFORMACJE O PRZEDMIOCIE

|   |   |
|---|---|
| NAZWA PRZEDMIOTU                        | Oszacowania kosztowe w inżynierii lądowej |
| NAZWA PRZEDMIOTU<br>W JĘZYKU ANGIELSKIM | Cost Estimates in Civil Engineering       |
| KOD PRZEDMIOTU                          | WIL BUD oIIS D4 21/22                     |
| KATEGORIA PRZEDMIOTU                    | Specialty subjects                        |
| LICZBA PUNKTÓW ECTS                     | 2.00                                      |
| SEMESTRY                                | 1   |

### 2 RODZAJ ZAJĘĆ, LICZBA GODZIN W PLANIE STUDIÓW

| SEMESTR | WYKŁAD | ĆWICZENIA<br>AUDYTORYJNE | LABORATORIA | LABORATORIA<br>KOMPUTERO-<br>WE | PROJEKTY | SEMINARIUM |
|---------|--------|--------------------------|-------------|---------------------------------|----------|------------|
| 1       | 15     | 0                        | 0           | 15                              | 0        | 0          |

### 3 CELE PRZEDMIOTU

**Cel 1** To educate students on development of cost estimates and analyses for design works and construction works in various phases of construction project.

**Cel 2** To provide knowledge related to cost estimates and analyses in the whole life cycle of construction object.

Kod archiwizacji:

**Cel 3** To enable students to acquire the competencies of individual and team-based development of cost estimates and analyses for design works and construction works in various phases of construction project. To prepare students (at a basic level) for conducting research on the issues related to cost estimates and analyses in various phases of construction project.

## 4 WYMAGANIA WSTĘPNE W ZAKRESIE WIEDZY, UMIEJĘTNOŚCI I INNYCH KOMPETENCJI

1 Fulfillment of the requirements according to the the study regulations at Cracow University of Technology. Fulfillment of formalities and procedures at Faculty of Civil Engineering, Cracow University of Technology.

## 5 EFEKTY KSZTAŁCENIA

**EK1 Wiedza** Knowledge of the cost estimates and analyses of design works and construction works for various kinds of construction objects.

**EK2 Umiejętności** Ability to develop cost estimates and analyses of design works.

**EK3 Umiejętności** Ability to develop cost estimates and analyses of construction works.

**EK4 Kompetencje społeczne** Ability to work individually and in team while solving problems related to cost estimates and analyses of design works and construction works. Ability to work individually and in team during research.

## 6 TREŚCI PROGRAMOWE

| LABORATORIA KOMPUTEROWE |   |                  |
|-------------------------|---|------------------|
| LP                      | TEMATYKA ZAJĘĆ<br>OPIS SZCZEGÓŁOWY BLOKÓW TEMATYCZNYCH  | LICZBA<br>GODZIN |
| K1                      | Cost estimates and analyses for selected cases of design works and construction works. Construction project budget estimates. | 7                |
| K2                      | Investor's cost estimates for selected cases. Bidding estimates for selected cases.   | 8                |

| WYKŁAD |   |                  |
|--------|---|------------------|
| LP     | TEMATYKA ZAJĘĆ<br>OPIS SZCZEGÓŁOWY BLOKÓW TEMATYCZNYCH  | LICZBA<br>GODZIN |
| W1     | Methods on cost estimation of design works for buildings and civil engineering objects.   | 4                |
| W2     | Initial cost estimates - budget of construction project.  | 4                |
| W3     | Investor's cost estimates.  | 2                |
| W4     | Bidding cost estimates. Development of bidding offers.  | 2                |
| W5     | Cost estimates of additional works, cost estimates for alterations, cost estimates provided after completion of construction works. | 3                |