Politechnika Krakowska im. Tadeusza Kościuszki

KARTA PRZEDMIOTU

obowiązuje studentów rozpoczynających studia w roku akademickim 2024/2025

Wydział Inżynierii Lądowej

Kierunek studiów: Budownictwo

Forma sudiów: stacjonarne

Stopień studiów: I

Specjalności: Bez specjalności - studia w języku angielskim

1 INFORMACJE O PRZEDMIOCIE

Nazwa przedmiotu	Praktyka zawodowa - budowlana
Nazwa przedmiotu w języku angielskim	Practical training in construction
Kod przedmiotu	WIL BUD oIS C32 24/25
Kategoria przedmiotu	Przedmioty kierunkowe
Liczba punktów ECTS	4.00
Semestry	4 6

2 LICZBA TYGODNI

Semestr	Liczba tygodni
4	4.00
6	4.00

3 Cele przedmiotu

Cel 1 Practical knowledge about functioning of construction company and design office

Cel 2 Direct acquaintance with a construction site and basic technologies of construction works

Cel 3 Acquaintance with basic construction site documentation and its flow

Profil: Ogólnoakademicki

Kod kierunku: BUD



Cel 4 Cooperation in a team project

Cel 5 Basics of human resources management at the construction site

4 WYMAGANIA WSTĘPNE W ZAKRESIE WIEDZY, UMIEJĘTNOŚCI I INNYCH KOMPETENCJI

1 no requirements

5 EFEKTY KSZTAŁCENIA

- **EK1 Wiedza** Knowledge about the stages of the construction process. Knowledge of site organisation and documentation flow.
- **EK2 Umiejętności** Student knows how to move safely around the construction site, is able to recognise the hazards associated with construction works and knows how to avoid them.
- EK3 Kompetencje społeczne Student is able to supervise simple construction works.
- **EK4 Wiedza** Knowledge of basic technologies for construction works (earthworks, reinforced concrete and masonry works). Knowledge of the assembly rules for prefabricated elements.

6 TREŚCI PROGRAMOWE

Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
		1



	Praktyka zawodowa	1
LP	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
$\mathbf{PZ1}$	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ1	Organisational structure of a construction company	24
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20



	Praktyka zawodowa	I
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
$\mathbf{PZ2}$	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
	<u> </u>	I



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	LICZBA GODZIN
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
-		



Lр РZ2	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
		GODZIN
	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20



Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ2	Operation of services and special units in a construction company	20
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
PZ3	Health and safety policy in a construction company	16
$\mathbf{PZ4}$	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
$\mathbf{PZ4}$	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
$\mathbf{PZ4}$	Methods of construction: Earthworks	30



Praktyka zawodowa		
LP	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
$\mathbf{PZ4}$	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ4	Methods of construction: Earthworks	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ5	Methods of construction: Foundations works	30
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45
PZ6	Methods of construction: RC structures	45



		Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ6	Methods of construction: RC structures	45		
PZ7	Methods of construction: Assembly of steel structures and elements	45		
PZ7	Methods of construction: Assembly of steel structures and elements	45		
PZ7	Methods of construction: Assembly of steel structures and elements	45		



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
		,



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
		,



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
		,



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
		,



	Praktyka zawodowa	
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	LICZBA GODZIN
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ7	Methods of construction: Assembly of steel structures and elements	45
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36



LP	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36



LP	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36



LP	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36



LP	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36



Praktyka zawodowa		
LP	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ8	Methods of construction: Wood structures and scaffoldings	36
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ9	Methods of construction: Finishing works and outfitting	30
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24



Praktyka zawodowa		
Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24

Praktyka zawodowa

Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24
PZ10	Requirements for construction site documentation	24

7 NARZĘDZIA DYDAKTYCZNE

 ${\bf N1}$ Other

8 Obciążenie pracą studenta

Forma aktywności	Średnia liczba godzin na zrealizowanie aktywności					
Godziny kontaktowe z nauczycielem akademickim, w tym:						
Godziny wynikające z planu studiów	0					
Konsultacje przedmiotowe	0					
Egzaminy i zaliczenia w sesji	0					
Zaliczenie Raportu	2					
Godziny bez udziału nauczyciela akademickiego wynikające z nakładu pracy studenta, w tym:						
Przygotowanie się do zajęć, w tym studiowanie zalecanej literatury	40					
Opracowanie wyników	0					
Przygotowanie raportu, projektu, prezentacji, dyskusji	18					
Uczestniczenie w procesach budowlanych	240					
Sumaryczna liczba godzin dla przedmiotu wynikająca z całego nakładu pracy studenta	300					
Sumaryczna liczba punktów ECTS dla przedmiotu	4.00					

9 Sposoby oceny

Ocena formująca

 ${\bf F1}\,$ The oral exam

Ocena podsumowująca

 ${\bf P1}~{\rm The}~{\rm oral}~{\rm exam}$

WARUNKI ZALICZENIA PRZEDMIOTU

 $\mathbf{W1}$ Submission of an approved practice report

Ocena aktywności bez udziału nauczyciela

 $\mathbf{B1} \ \mathrm{Other}$

KRYTERIA OCENY

Efekt kształcenia 1						
NA OCENĘ 3.0 Submission of an approved practice report						
Efekt kształcenia 2						
NA OCENĘ 3.0	Submission of an approved practice report					
Efekt kształcenia 3						
NA OCENĘ 3.0	Submission of an approved practice report					
Efekt kształcenia 4						
Na ocenę 3.0	Submission of an approved practice report					

10 MACIERZ REALIZACJI PRZEDMIOTU

Efekt kształcenia	Odniesienie danego efektu do szczegóło- wych efektów zdefiniowa- nych dla programu	Cele przedmiotu	Treści programowe	Narzędzia dydaktyczne	Sposoby oceny
EK1		Cel 1 Cel 2 Cel 3	PZ1 PZ2 PZ4 PZ5 PZ6 PZ7 PZ8 PZ9 PZ10	N1	F1 P1
EK2		Cel 2 Cel 5	PZ2 PZ3 PZ10	N1	F1 P1
EK3		Cel 5	PZ2 PZ3 PZ10	N1	F1 P1
EK4		Cel 2 Cel 4 Cel 5	PZ4 PZ5 PZ6 PZ7 PZ8 PZ10	N1	F1 P1



11 WYKAZ LITERATURY

12 INFORMACJE O NAUCZYCIELACH AKADEMICKICH

Osoba odpowiedzialna za kartę

mgr inż. Mirosław Boryczko (kontakt: mboryczk@pk.edu.pl)

OSOBY PROWADZĄCE PRZEDMIOT

1 mgr inż. Mirosław Boryczko (kontakt: mboryczk@pk.edu.pl)

2 mgr inż. Łukasz Ślaga (kontakt: lslaga@pk.edu.pl)

13 ZATWIERDZENIE KARTY PRZEDMIOTU DO REALIZACJI

(miejscowość, data)

(odpowiedzialny za przedmiot)

(dziekan)

PRZYJMUJĘ DO REALIZACJI (data i podpisy osób prowadzących przedmiot)

.....

Strona 51/51