

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: I

Specjalności: Bez specjalności - studia w języku angielskim

1 INFORMACJE O PRZEDMIOCIE

NAZWA PRZEDMIOTU	Organizacja, kier. budową i BHP
NAZWA PRZEDMIOTU W JĘZYKU ANGIELSKIM	Construction Supervision, Occupational Safety and Health
KOD PRZEDMIOTU	WIL BUD oIS C43 21/22
KATEGORIA PRZEDMIOTU	Przedmioty kierunkowe
LICZBA PUNKTÓW ECTS	4.00
SEMESTRY	6

2 RODZAJ ZAJĘĆ, LICZBA GODZIN W PLANIE STUDIÓW

SEMESTR	WYKŁAD	ĆWICZENIA AUDYTORYJNE	LABORATORIA	LABORATORIA KOMPUTERO- WE	PROJEKTY	SEMINARIUM
6	30	15	0	0	30	0

3 CELE PRZEDMIOTU

Cel 1 Acquainting students with the basic principles and methods of organizing the construction process and planning construction projects

Cel 2 Acquainting students with the rights and duties of participants in the construction process in accordance with construction law

- Cel 3** To get students acquainted with the principles of occupational health and safety during construction works, basic threats occurring during the execution of works, rules of conduct in the event of accident and methods of estimating the level of occupational risk
- Cel 4** Preparing students to work in a team to solve problems related to the organization of effective and safe work at the construction site
- Cel 5** Preparation students for scientific work, critical assessment of obtained results and presentation of a given problem regarding planning and organization of a construction project in accordance with health and safety rules

4 WYMAGANIA WSTĘPNE W ZAKRESIE WIEDZY, UMIEJĘTNOŚCI I INNYCH KOMPETENCJI

- 1 Fundamental knowledge of building technologies

5 EFEKTY KSZTAŁCENIA

EK1 Wiedza Student has knowledge of principles and methods of planning and organization of construction works

EK2 Wiedza Student has knowledge of rights and obligations of participants in the construction process.

EK3 Wiedza The student knows the hazards that may occur during the performance of construction works and learns the principles of health and safety in construction works. Student also has the basic knowledge of occupational risk assessment in construction

EK4 Umiejętności The student is able to perform and analyze network models and develop construction schedules

EK5 Umiejętności The student is able to identify the basic hazards that may occur during the execution of construction works, analyze the possibilities of their prevention and estimate the level of risk in a basic range

EK6 Umiejętności The student is able to design the development of the construction site according to the safety rules

EK7 Kompetencje społeczne Student is aware of the responsibility for the reliability of the results of their work and their interpretation

EK8 Kompetencje społeczne The student can work in a group

6 TREŚCI PROGRAMOWE

WYKŁAD		
LP	TEMATYKA ZAJĘĆ OPIS SZCZEGÓŁOWY BLOKÓW TEMATYCZNYCH	LICZBA GODZIN
W1	Organization and characteristic of the construction process Law regulations	2
W2	Methods of organizing construction works. Estimating task execution time.	2
W3	Planning methods and organization of a construction project. Construction Critical Path Method (CPM) and network model analysis	4
W4	Construction schedules - types and rules of performance	2
W5	Health and safety rules at the construction site	8

WYKŁAD		
LP	TEMATYKA ZAJĘĆ OPIS SZCZEGÓŁOWY BLOKÓW TEMATYCZNYCH	LICZBA GODZIN
W6	Construction site development: construction site development elements, their location and order of implementation	4
W7	Health and safety plan.occupational risk assessment	2
W8	Rights and duties of participants in the construction process. Construction documentation	6

ĆWICZENIA AUDYTORYJNE		
LP	TEMATYKA ZAJĘĆ OPIS SZCZEGÓŁOWY BLOKÓW TEMATYCZNYCH	LICZBA GODZIN
C1	Creating and analyzing networks using the CPM method. Analysis of the critical path	4
C2	Construction schedules	2
C3	The division of the object into building sections. Implementation of the construction method using a flaw method	2
C4	Organization of the construction site. Case studies	2
C5	Identification of hazards that may occur during construction works and occupational risk assessment. Documents related to OSH at the construction site	5

PROJEKTY		
LP	TEMATYKA ZAJĘĆ OPIS SZCZEGÓŁOWY BLOKÓW TEMATYCZNYCH	LICZBA GODZIN
P1	Description and assumptions of the project. Presenting the scope of the project.	2
P2	Analysis of construction documentation. Division into working plots	2
P3	Analysis of the technological order of construction works execution	2
P4	Bill of quantities	4
P5	Calculation of the number of work teams and the time of completion of construction works	4
P6	Modeling of the activity network for investments. CPM method and critical path analysis	6
P7	Construction schedules	6
P8	Construction site development plan according to the safety rules	4