



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Prediploma practice (4weeks) [S1BZ1E>PPD]

Course

Field of study

Sustainable Building Engineering

Year/Semester

3/6

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

English

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

160

Tutorials

0

Projects/seminars

0

Number of credit points

6,00

Coordinators

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Lecturers

Prerequisites

Knowledge of building subjects at the 3rd year student level tailored to the type of pre-graduate practice (profile of interest or diploma) and future specialty of the profession of civil engineer related to the type of building objects. The ability to link knowledge acquired at the University with the practice of its application, including a critical look at the quality of project documentation and design processes and production processes at the construction site in the context of continuous improvement of knowledge Awareness of the role of civil engineer in the field of designing buildings and managing construction works while maintaining the principles of professional ethics and respect for other participants in the work process and the environment (engineer as a profession of public trust).

Course objective

The basic goal is to learn the specifics of the work of a construction engineer in the performance of independent technical functions, i.e., e.g. a designer or construction manager. An additional goal is to develop a critical look at the fields of self-improvement and the practice of its application. Pre-graduate practice helps to clarify your professional interests, the necessary choice of specialty profession and the future path of self-improvement.

Course-related learning outcomes

none

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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Exercise evaluation

The basis for getting credit is the apprenticeship journal signed by an authorized representative of the organization enabling the apprenticeship (if possible also authorized to perform independent technical functions within the meaning of the law). The internship is credited and the appropriate tutor on behalf of the University makes the entry in the index.

The scope of the practice should include many different tasks, among others :

1. Health and safety training.
2. Understanding the general scope of activity and the specifics of the functioning of a construction company or design office.
3. Familiarizing the student with:
 - organization of the construction site, duties of the contract manager, construction manager, foreman, foreman, supervision inspector,
 - the implementation of documentation and design works, as well as the duties of the design and administrative team,
 - construction works technology, cost estimation, schedules, organization of construction projects,
 - construction, assembly and material solutions of implemented facilities,
 - payroll, billing and invoicing system,
 - current activity of the workplace (through active participation in the investment process, preferably performing the function of assistant construction engineer: in preparatory, design, executive, marketing and other works).

It is advisable to familiarize the trainee with many different sentences implemented during construction. Considering the possibilities of the guardian on the part of the workplace within the time of the internship, not all tasks from point 3 need to be completed.

During the internship, the student documents (daily) their activities in the internship diary. These entries must be confirmed by the internship supervisor on the part of the workplace (with the establishment's stamp).

Completion of the internship is made by the Internship supervisor, appropriate for the diploma profile, appointed by the internship attorney at WILIT.

Programme content

The prediploma practice takes place in contractor companies (on site), in design offices, in supervisory and operational services or in research centres.

Course topics

The practice takes place in contractor companies (on site), in design offices, in supervision and operation services or in research facilities, e.g. at the University. However, due to the importance of contractor knowledge in design, practice on site is preferred. On the formal side, the apprenticeship must take place through the Apprenticeship and Career Centre of the Poznan University of Technology. The apprenticeship takes place taking into account the specifics of sustainable construction.

Teaching methods

local vision, participation in works, discussions

Bibliography

Basic

1. Gawrysiak U., Budownictwo. Bezpiecznie od startu. Państwowa Inspekcja Pracy, Warszawa 2009
2. Rozporządzenia wykonawcze prawa budowlanego o warunkach technicznych, jakim powinny odpowiadać obiekty budowlane i ich usytuowanie (rodzaje obiektów zależnie od przyszłej specjalności zawodu).
3. Rozporządzenie Ministra Infrastruktury z dnia 6 lutego 2003 r. w sprawie bezpieczeństwa i higieny pracy podczas wykonywania robót budowlanych. Dz. U. 2003 nr 47 poz. 401

4. Gawrysiak U., Budownictwo. Bezpiecznie od startu. Państwowa Inspekcja Pracy, Warszawa 2009.
5. Rozporządzenia wykonawcze prawa budowlanego o warunkach technicznych, jakim powinny odpowiadać obiekty budowlane i ich usytuowanie (rodzaje obiektów zależnie od przyszłej specjalności zawodu).
6. Rozporządzenie Ministra Infrastruktury z dnia 6 lutego 2003 r. w sprawie bezpieczeństwa i higieny pracy podczas wykonywania robót budowlanych. Dz. U. 2003 nr 47 poz. 401

Additional

1. Gilewicz A., Gilewicz M., Poradnik BHP w projektowaniu, wykonawstwie i nadzorze robót budowlano-montażowych. Alfa-Wero, Warszawa 1997.
2. Wieczorek Z., Budownictwo. Wymagania bezpieczeństwa pracy. Państwowa Inspekcja Pracy, Warszawa 2011
3. Strojna E., Piotrowicz J., Żywiec-Dąbrowska E., Klasyfikacja zawodów i specjalności na potrzeby rynku pracy. Ministerstwo Pracy i Polityki Społecznej, Warszawa 2010.
4. Gilewicz A., Gilewicz M., Poradnik BHP w projektowaniu, wykonawstwie i nadzorze robót budowlano-montażowych. Alfa-Wero, Warszawa 1997.
5. . Strojna E., Piotrowicz J., Żywiec-Dąbrowska E., Klasyfikacja zawodów i specjalności na potrzeby rynku pracy. Ministerstwo Pracy i Polityki Społecznej, Warszawa 2010.
6. BHP i BIOZ na budowie

Breakdown of average student's workload

	Hours	ECTS
Total workload		
Classes requiring direct contact with the teacher		
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)		