**Nazwa przedmiotu:**

Senior Design Project 2

**Koordynator przedmiotu:**

Roman Podraza

**Status przedmiotu:**

Obowiązkowy

**Poziom kształcenia:**

Studia I stopnia

**Program:**

Computer Science

**Grupa przedmiotów:**

Bachelor Diploma

**Kod przedmiotu:**

ESDP2

**Semestr nominalny:**

8 / rok ak. 2015/2016

**Liczba punktów ECTS:**

12

**Liczba godzin pracy studenta związanych z osiągnięciem efektów uczenia się:**

During the second semester students concentrate on implementing the solution and writing the diploma dissertation. The project should reflect the professional skills of prospective engineers. The major activity of the projects is an individual, independent work of the students under the guidance of supervisors.Estimated time of student involvement is approximately 280 hours.

**Liczba punktów ECTS na zajęciach wymagających bezpośredniego udziału nauczycieli akademickich:**

0

**Język prowadzenia zajęć:**

angielski

**Liczba punktów ECTS, którą student uzyskuje w ramach zajęć o charakterze praktycznym:**

12

**Formy zajęć i ich wymiar w semestrze:**

|  |  |
| --- | --- |
| Wykład:  | 0h |
| Ćwiczenia:  | 0h |
| Laboratorium:  | 0h |
| Projekt:  | 15h |
| Lekcje komputerowe:  | 0h |

**Wymagania wstępne:**

Passing Senior Design Project 1 (ESDP1).

**Limit liczby studentów:**

30

**Cel przedmiotu:**

Senior Design Project is a two-part, two-semester course, which is aimed to prepare students to their professional work. The result of Senior Design Project is a capstone project and a B.Sc. diploma dissertation.

**Treści kształcenia:**

Each student is expected to solve a typical engineering task using appropriate tools and methods. The student should demonstrate engineering skills and knowledge acquired during the studies.
In the second semester emphasis is placed on completion of a design project initiated in Senior Design Project 1. This is achieved by project implementation, and writing the B.Sc. diploma dissertation. State-of-the art in technical aspects of design should be demonstrated in the implementation and documented in the dissertation.
The Senior Design Project (1 and 2) are intended to be the culmination of the undergraduate experience, where knowledge gained during the studies is applied to a capstone project.

**Metody oceny:**

The student is obliged to submit a report from his/her work and the other results including the dissertation and a solution of the projects (computer files, hardware prototypes, etc,), by the end of semester. The project is evaluated by a supervisor, who takes into account:
• the quality and depth of understanding of the technical and scientific foundations of the project,
• the analysis and understanding of how the design evolved to satisfy the goals of the project,
• correctness of selection tools and engineering methodologies,
• quality, technical writing skills,
• engagement of the student.
The final mark is one of two possibilities: passed or not passed. Passing means that the final version of the B.Sc. thesis has been accepted by the supervisor.

**Egzamin:**

nie

**Literatura:**

Dependent on supervisor

**Witryna www przedmiotu:**

https://studia.elka.pw.edu.pl

**Uwagi:**

## Efekty przedmiotowe

### Profil ogólnoakademicki - wiedza

**Efekt ESDP2\_W01:**

Student acquires a detailed knowledge from the area specified by the subject of his/her research (and the future diploma thesis)

Weryfikacja:

Evaluation of the report submitted by student, monitoring the progress of the project

**Powiązane efekty kierunkowe:** K\_W18, K\_W20

**Powiązane efekty obszarowe:** T1A\_W04, T1A\_W05, T1A\_W06, T1A\_W07, T1A\_W09

### Profil ogólnoakademicki - umiejętności

**Efekt ESDP2\_U01:**

Student is able to choose an appropriate methodology and tools to solve an engineering problem from the ICT area using a guidance of his/her supervisor.

Weryfikacja:

Evaluation of the report submitted by student, monitoring the progress of the project

**Powiązane efekty kierunkowe:** K\_U01, K\_U02, K\_U13, K\_U15, K\_U17

**Powiązane efekty obszarowe:** T1A\_U01, T1A\_U02, T1A\_U14, T1A\_U15, T1A\_U16, T1A\_U14, T1A\_U08, T1A\_U15, T1A\_U16

### Profil ogólnoakademicki - kompetencje społeczne

**Efekt ESDP2\_K01:**

Student realizes ethical aspects of his/her engineering project

Weryfikacja:

Evaluation of the report submitted by student, monitoring the progress of the project

**Powiązane efekty kierunkowe:** K\_K01, K\_K03

**Powiązane efekty obszarowe:** T1A\_K01, T1A\_K05