**Nazwa przedmiotu:**

Senior Design Project 1

**Koordynator przedmiotu:**

Roman Podraza

**Status przedmiotu:**

Obowiązkowy

**Poziom kształcenia:**

Studia I stopnia

**Program:**

Computer Science

**Grupa przedmiotów:**

Bachelor Diploma

**Kod przedmiotu:**

ESDP1

**Semestr nominalny:**

7 / rok ak. 2015/2016

**Liczba punktów ECTS:**

3

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

During the first semester students do some research work to identify a problem, formulate it, recognize its known solutions and choose appropriate tools and methods to solve it. Consultations with supervisor and literature investigations are basic approaches during this phase of the project. Estimated time of student involvement is approximately 70 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:**

3

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

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

**Wymagania wstępne:**

Approx. 180 ECTS point earned in Computer Science programme.

**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 first semester emphasis is placed on project identification, basic analysis and/or appropriate prototyping, production of a feasibility study. State-of-the art in technical aspects of design should be reflected by choice of tools and methodologies applied for a solution.
Senior projects can be defined and mentored in collaboration with an industrial partner. This approach is encouraged, because it simulates the environment in which a student will shortly be operating.

**Metody oceny:**

The student is obliged to submit a report from his/her work and the other results 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,
• progress in solving the problem,
• engagement of the student.
The final mark is one from the set 5.0, 4.5, 4.0, 3.5, 3.0, 2.0 (failure requiring repeating the course).

**Egzamin:**

nie

**Literatura:**

Dependent on supervisor

**Witryna www przedmiotu:**

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

**Uwagi:**

## Efekty przedmiotowe

### Profil ogólnoakademicki - wiedza

**Efekt ESDP1\_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

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

### Profil ogólnoakademicki - umiejętności

**Efekt ESDP1\_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

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

### Profil ogólnoakademicki - kompetencje społeczne

**Efekt ESDP1\_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