**SYLLABUS**

**Department:**Międzynarodowa Szkoła Doktorska

**Semester:**1

**Name of the department / clinic providing the course:**

Department of Psychosocial Rehabilitation

**Course title:**

**Course profile:**academic

**Speciality:**

**Level of course unit:**phd students

1. **Course unit title:**Co-creation and innovation in health care
2. **Course unit code:**
3. **Type of course unit:**optional
4. **Course language:**English
5. **Course aims:**

The aim of this course is to acquire and develop knowledge and skills in the fields of need definition of end-users and co-creation of innovations in medical health care. Students will learn the basic principles of innovation development in health care and they will have the opportunity to learn the assumptions of the Biodesign and Design Thinking methods which are now widely used in innovative solutions development and implementation to the practice.

**Form of study:**full time

1. **Year of study:**1
2. **Types of educational activities and number of hours allocated:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Subject | Language course | Self-study | Lecture | Exercises | Laboratory | Seminar | Practical | e-learning | Profession practice | Other (what?) | ECTS points |
| Co-creation and innovation in health care: | English |  |  |  |  | 5 |  |  |  |  | 0 |

1. **Number of ECTS credits allocated and their structure according to students’ from of learning:**
2. **Names of course unit’s faculty:**
3. **Prerequisites:**

Before taking the exam, you must have passed: NA

1. **Learning activities and teaching methods:**

-Oral and multimedia presentations about the theoretical background of innovation in health care, Biodesing and Design Thinking methods  
  
-Case studies: training the ability of the medical environment observation and the needs and resources definition of medical service and patients.   
  
-Team working: training the ability to create empathy maps for selected case studies, recognizing problems and needs of medical service and end-users, creating solutions based on various teamwork techniques, acquiring the ability to select tasks which are the most important in working in the interdisciplinary and international team.

1. **Course unit content:**

1. Needs definition using the Biodesign method: medical setting observation training.  
  
2.  Creating of innovative solutions in health care basing on the Design thinking method: case study.

1. **Course objectives:**

**Knowledge:**

-Theoretical knowledge about the role of innovation in healthcare, Biodesign and Design Thinking methods  
  
- Practical knowledge in the field of the observation techniques in the clinical environment, defining needs based on observations, creating maps of empathy, creative problem solving in the interdisciplinary and international teams.

**Skills:**

- Achieve the ability to operate with basic terms / concepts in the field of: innovation, Biotech, Design Thinking, Biodesign, co-creation, needs and resources, stakeholders in healthcare.  
  
- Develop the problem solving skills based on various techniques of creative problem solving.  
  
- Achieve the ability to create innovation in the interdisciplinary team.

**Attitudes and transferrable (generic) competencies:**

-Ability to transfer knowledge and skills to other team members by using creative problem solving techniques.  
  
-Communication skills in the interdisciplinary and international team.  
  
-Ability to define priorities for the task implementation in the team.  
  
-Ability to cooperate in the interdisciplinary team using various team roles.

1. **Required and recommended learning resources (readings):**

**Required:**

Yock PG, Zenios S, Makower J, i wsp. Biodesign: The Process of Innovating Medical Technologies 2nd Edition. Cambrige University Press, 2017.  
  
Yock PG. Et al. Teaching Biomedical Technology Innovation as a Discipline. Science. Translational. Mecicine. 2011; (3) 92:1-5.

**Recommended:**

Brown T. Design Thinking, Harvard Bussiness Review, 2008.

1. **Assessment methods and criteria:**

Project development using the Design Thinking in the interdisciplinary team is the condition of passing the course.

1. **Additional information:**

Contact person Magdalena Wrzesińska, associate professor   
  
Head, Department of Psychosocial Rehabilitation, Medical University of Lodz, e-mail: magdalena.wrzesinska@umed.lodz.pl

1. **Statement and signature of the course leader:**

I hereby state that the content of the curriculum included in the syllabus below is the result of my individual work completed as part of work contract/cooperation resulting from a civil law contract, and that author rights to this title are not the property of a third party.

1. **Dean’s signature:**
2. **Date:**