### COURSE DESCRIPTION

1. **Course title:** Rescue systems

2. **Course code:** SII-TOBHP/27

3. **Validity of course description:** 2017/2018

4. **Level of studies:** MSc programme 2nd cycle of higher education

5. **Mode of studies:** intramural studies

6. **Field of study:** SAFETY ENGINEERING

7. **Profile of studies:** General

8. **Programme:** technology and organization of health and safety at work

9. **Semester:** III

10. **Faculty teaching the course:** Department of Safety Engineering

11. **Course instructor:** PhD Maja Taraszkiewicz-Łyda

12. **Course classification:** course of specialization

13. **Course status:** compulsory

14. **Language of instruction:** English

15. **Pre-requisite qualifications:** General knowledge about Rescue Systems Organization

16. **Course objectives:** Provide students with interdisciplinary knowledge about the function, structure of emergency systems, expanding horizon on emergency systems in Poland and their action in the face of threats based on the integrated rescue system.

17. **Description of learning outcomes:**

<table>
<thead>
<tr>
<th>Nr</th>
<th>Learning outcomes description</th>
<th>Method of assessment</th>
<th>Teaching methods</th>
<th>Learning outcomes reference code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>student has detailed knowledge about organization of security systems and knowledge helpful to solve complex engineering tasks for emergency systems</td>
<td>Written exam, lab report</td>
<td>Lecture,laboratory</td>
<td>K_W12+++</td>
</tr>
<tr>
<td>2</td>
<td>Student has detailed and theoretical technical knowledge in the field of security systems used to solve complex engineering tasks for conduct rescue</td>
<td>Written exam, lab report</td>
<td>Lecture,laboratory</td>
<td>K_W13++</td>
</tr>
<tr>
<td>3</td>
<td>Student has a basic knowledge of the development trends and the most important new developments (techniques and technologies) in the field of safety engineering and related fields</td>
<td>Written exam, lab report</td>
<td>Lecture,laboratory</td>
<td>K_W14+</td>
</tr>
<tr>
<td>4</td>
<td>Student is able to integrate knowledge of safety engineering and related fields in formulating and solving engineering tasks</td>
<td>Written exam, lab report</td>
<td>Lecture,laboratory</td>
<td>K_U08++</td>
</tr>
<tr>
<td>5</td>
<td>Student is able to assess the usefulness and the usability of new developments (techniques and technologies) in safety engineering</td>
<td>Written exam, lab report</td>
<td>Lecture,laboratory</td>
<td>K_U11+</td>
</tr>
</tbody>
</table>

18. **Teaching modes and hours**

   Lecture 15h  Laboratory 15h
19. Syllabus description:

lecture
National Firefighting and Rescue System, organizational structure and basic operations of State fire, structures of emergency medicine, hospital emergency departments, mine rescue. Civilizational threat, toxic industrial agents, emergency plans, organization of civil defense in Poland and the task of the Government Centre for Security, communication with the media in crisis.
laboratory
The movie about co-operation in the field of emergency services in case of an accident, evacuation of people, animals, property from the risk areas. The biggest natural and manmade disasters, logistics in crisis management, the importance of logistics in emergency, critical infrastructure, protection of critical infrastructure.

20. Examination: No

21. Primary sources:

22. Secondary sources:

23. Total workload required to achieve learning outcomes

<table>
<thead>
<tr>
<th>Lp.</th>
<th>Teaching mode</th>
<th>Contact hours / Student workload hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lecture</td>
<td>15/15 refer to the indicated literature (3h), preparation for lectures (10h), participation in the exam (2h)</td>
</tr>
<tr>
<td>2</td>
<td>Classes</td>
<td>/</td>
</tr>
<tr>
<td>3</td>
<td>Laboratory</td>
<td>15/15Familiarize with the indicated literature (5h), the implementation of laboratory tasks (8h), report (2h)</td>
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<tr>
<td>4</td>
<td>Project</td>
<td>/</td>
</tr>
<tr>
<td>5</td>
<td>BA/MA Seminar</td>
<td>/</td>
</tr>
<tr>
<td>6</td>
<td>Other</td>
<td>/</td>
</tr>
<tr>
<td></td>
<td>Total number of hours</td>
<td>30/30</td>
</tr>
</tbody>
</table>

24. Total hours: 60

25. Number of ECTS credits: 1

26. Number of ECTS credits allocated for contact hours: 1

27. Number of ECTS credits allocated for in-practice hours (laboratory classes, projects): 1

26. Comments:

Approved:

(date, Instructor’s signature)  (date, the Director of the Faculty Unit signature)