Title **(Systemy wysokiej niezawodności)**	Code **1010332431010330744**
Field **Computer Science**	Year / Semester **2 / 3**
Specialty **Security of IT systems**	Course **core**
Hours Lectures: **1** Classes: **-** Laboratory: **1** Projects / seminars: **-**	Number of credits **5**
	Language **polish**

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Status of the course in the study program:

Core

Assumptions and objectives of the course:

Main objective of the course is to provide knowledge on principles of building of high-availability and high-reliability systems and to teach methods of evaluation of system reliability.

Contents of the course (course description):

1. Critical systems basics
2. Hardware redundancy
3. Techniques of error detection
4. Methods of logic circuits testing
5. Functional testing
6. Check points and recovery
7. Software error toleration
8. Security and safety
9. Evaluation of dependability
10. System modeling using stochastic Petri nets

Introductory courses and the required pre-knowledge:

Basic knowledge of computer architecture, Digital circuits, computer networks, and operating systems

Courses form and teaching methods:

Lectures and laboratory

Form and terms of complete the course - requirements and assessment methods:

Lecture: written exam
Laboratory: evaluation of experiments, tests, reports

Basic Bibliography:

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Additional Bibliography:
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