

Title Information processes design	Code 1011102131011120058
Field Safety Engineering - Full-time studies - Second-cycle studie	Year / Semester 2 / 3
Specialty Ergonomics and Work Safety	Course elective
Hours Lectures: 1 Classes: 30 Laboratory: - Projects / seminars: 15	Number of credits 2
	Language polish

Lecturer:

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Status of the course in the study program:

Elective object

Assumptions and objectives of the course:

Presentation of knowledge from the area of the issue and development of the idea of ergonomics, stimulating an interest in the criticism of individual conditions of interaction with a computer system.

Contents of the course (course description):

Principal problems of integrating man with techniques, the essential of ergonomics. Functional structure of a technical system. System load. Feedback system: man ? to ? technical elements of the system, characteristics of input and output factors. Design of technique with consideration of the knowledge on abilities of man. Formation of ergonomic requirements on design. Instruments of ergonomic diagnosis. Formation of process of making decisions, psychological factors of cognitive processes. Analysis of cognitive operation of man. Ergonomic formation of operator?s workstation elements. Ergonomic optimization of the dialogue: man ? to ? technical subsystem. Plan of verification research and stages of ergonomic modification of the system.

Introductory courses and the required pre-knowledge:

Basic knowledge in ergonomics, communication and information processes design, features of cognitive processes.

Courses form and teaching methods:

Lecture and classes

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

Individual work at the end of the semester

Basic Bibliography:

Additional Bibliography: