

Title Ergonomics	Code 1011104331011120823
Field Management - Part-time studies - First-cycle studies	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 4
	Language polish

Lecturer:

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Status of the course in the study program:

-Core course

Assumptions and objectives of the course:

-Students should obtain the knowledge of theoretical and practical questions from ergonomic area and skill in solving ergonomic engineering problems. Ergonomicity ought to be comprehended by students as a quality category, which assures better quality and efficiency of work processes and life well-being.

Contents of the course (course description):

-Genesis of ergonomics on the background of technology and science development. Compound sciences and character of ergonomics. Human - technical object system and its environment as a work place and work conditions. Contemporary trends in ergonomic researches. Methods of ergonomic diagnosis. Analysis of physical burdens in work and thermal balance of human body. Analysis of psychical burdens connected with work. Principles of burden optimization. Processes of perception and transformation of information. Principles of signaling and controlling devices choice. Designing of spatial parameters of work place, machines and hand tools on the basis of anthropometric data. Evaluation and designing of work environment features (mechanical vibrations, noise, micro-climate parameters, lighting, injurious radiation, air pollutions). Principles of ergonomic design method. Examples of ergonomic design of work places by: mechanical working, assembling, computerized office. Ergonomics for disabled and senior people.

Introductory courses and the required pre-knowledge:

-Basic knowledge from secondary school about human being, work conditions problems and production technology area.

Courses form and teaching methods:

-Lectures, laboratory exercises.

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

-Lectures: written exam; Laboratories: six self-reliance experiments and measurements.

Basic Bibliography:

Additional Bibliography: