

Course: Repair and maintenance engineering

Lectures: Exploitation of buildings. Technical and legal principles of correct operation of buildings. Building log book. Factors determining reduction of usable values.

Durability of building components. Durability periods of building components. Service life of buildings.

Assessment of technical condition of a building and its components. Criteria for assessing technical wear and tear of building components. Methods of determining the degree of wear and tear of a building. Assessment of the possibility of repair and reinforcement of the structure.

Prospective repair and renovation programming. Determination of repair and renovation scope. Inter-repair cycles. Preventive maintenance planning.

Preparation of overhauls. Scope of documentation, evaluations, opinions, expertise. Types of pre-project works. Inventory works. Analysis of cultural values. Phases of renovation and modernization design.

Technical and legal rules in objects requiring the maintenance and consolidation of cultural heritage. Scope and possibilities of applying repair solutions which do not interfere with historical architectural and structural arrangement of buildings.

Conservation and repairs. Scope and possibilities of construction and materials.

Project: Assessment of the technical condition of a building

Responsible person: Assoc. Prof. Beata Nowogońska, Ph.D., D.Sc.

More info:

<https://webapps.uz.zgora.pl/syl/index.php?/course/showCourseDetails/1225517>