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Electronic educational resources as innovative technologies of engineering education

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ABSTRACT

The development of electronic educational resources is an important direction in the education system. The article details the sequence of electronic educational resources creation on the example of the discipline "Building Thermophysics" included in the module "Fundamentals of building microclimate". The project development begins with the drawing up of an application for the electronic educational resources. The section "General information and goals for the electronic educational resources creation" includes information about a head and members of the creative team, a resource type and working language, a target group, the mode of study and expected educational outcomes. The section «Terms of electronic educational resources creation" includes information about materials availability and the ability to perform and implement the project on time. The section "Characteristics of electronic educational resources" contains the concept of the electronic educational resource.

After agreeing and introducing changes and corrections, the electronic educational resource is integrated into a single shell, reviewed by an expert commission and uploaded on the university's website. The learning outcomes include the following skills: to collect, process, analyze information for drafting of technical specifications on heat and gas supply and ventilation system design; to develop project and working documentation; to perform calculations of elements and equipment of heat and gas supply and ventilation systems.

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