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ENTERPRISES DESIGN BASED ON BLOCK-MODULAR APPROACH (SHIPBUILDING CASE SYUDY)

Alexey Novikov

PhD (economics), associate professor

Chair of Economics, Organization and Management, St. Petersburg mining university

Saint-Petersburg, Russia

Abstract. The article deals with the issues of block-modular design at industrial enterprises based on industrial production technology as an important direction of increasing the enterprise flexibility, the ability to respond quickly and at low cost to changes in the external environment. The purpose of the study was to form the general block-modular design principles of the industrial enterprise's structure. The objectives of the study were to study the methodological prerequisites for the formation of modern organizations' block-modular structures, as well as the enlarged list of shipbuilding enterprise's modules formation. The research methodology is based on methods of analogy, information structuring based on an object-oriented approach (this approach has proven itself well in computer programming and design), goals decomposition, general scientific methods of analysis and synthesis. The block-modular design is based on industry-specific production technology, divided into separate stages and within each stage further according to the functionality of individual activity areas. The minimum module capable some function performing within the enterprise is a room (or part of a room) with installed equipment and staff for work. The results of the study can be used in designing industrial enterprises and modulating existing structures.

Keywords: block-modular approach; design; industry technology; modular structures; restructuring; shipbuilding; technological stages.

JEL codes: L16; L22; L52.

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Contact

Alexey Novikov
St. Petersburg mining university
21 line, 2, Vasilyevsky island, 199106, Saint-Petersburg, Russia
noalv@mail.ru