

**Tsiutsiura Svitlana**

Kyiv National University of Construction and Architecture, Kyiv  
DSc (Eng.), Professor, Head of the Department of IT

**Prystailo Mykola**

Kyiv National University of Construction and Architecture, Kyiv  
PhD, Associate Professor, Department of FVT

**DESIGNING OF ENTERPRISE RESOURCE SOFTWARE SUBSYSTEM**

For a production enterprise, the task of managing physical assets is one of the key functions of the production process. Various risks associated with the operation and installation of new equipment can create enormous material losses and stop the production. In the absence of methodological asset management tools, nobody in the enterprise is responsible for their management. That is why such a management is unsystematic, inflexible, costly and ineffective, which is close to its absence. All this limits the development of the organization and leads to increased risk of loss. Enterprise Resource Management Systems provide firms with a business processing model that integrates with other types of business activities such as business planning and human resource management. ERP (Enterprise Resource Planning) implements the standard processes of the company and provides it with a single database (DB), covering all its activities. ERP systems provide the integration of its numerous geographically separated divisions and functional areas. As a result, ERP systems provide improved management decision-making capabilities.

With a large amount of technical resources and a complex structure of the enterprise, the correct definition of the management system is very important. Designing the "Subsystems of technical resources management", covers only the technical part of the enterprise system ERP. Subsystems of technical resources management is a complex of organizational and technological measures for the maintenance and repair of equipment. The subsystem includes the following modules: scheduling, preparation, maintenance and repair with specified sequence and periodicity. For these purposes, the subsystem specifies the duration of inter-repair periods, repair cycles, downtime and the complexity of repairs and maintenance of equipment and process equipment, the maintenance of repairs of certain types of equipment, instructions for the organization of its repair and maintenance.

The technical resources management subsystem should provide:

- maintenance of the register of equipment, technical installations, assemblies and their components;
- registration of technical data, specifications for installation, repair and maintenance of equipment;
- scheduling of scheduled repairs based on the calendar;
- planning and dispatching of work outfits.