

**THE BUCHAREST UNIVERSITY OF ECONOMIC STUDIES**



**PhD Management School**

**MODELLING SYSTEM ON FORECASTING  
MAINTENANCE MANAGEMENT  
SERVICES**

**- ABSTRACT -**

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## B. KEY WORDS

- maintenance management
- predictive management
- service maintenance
- asset maintenance
- support systems
- process maintenance
- human resources maintenance
- maintenance of materials and utilities
- maintenance strategies
- key performance indicators
- preventive maintenance
- reactive maintenance
- project management
- utilities maintenance
- internal company
- contractor
- outsourcing
- outsourcing models
- reliability models
- resource allocation modeling
- emergency interventions

## **C. ABSTRACT**

The predictive management of maintenance services is an area of great interest for both researchers and managers of economic organizations. The previous research in the field is limited and without a systemic vision, being mostly focused on certain types of processes in the field. The idea behind the doctoral thesis is that the main purpose of the maintenance is not to carry out any work in the shortest time possible, but to anticipate losses and to prevent them. This involves building systemic models for predictive maintenance management and its approach methodology that assists decision-makers by structuring decision-making problems, identifying the relationships between various problems, modeling methods and solving algorithms. In addition, the author develops and experiences some methodologies for building models for outsourcing decisions, building models for predicting the need for material maintenance services, and so on.

The PhD thesis is the result of the research conducted by the author during the training at the Doctoral School of Management in the Bucharest University of Economic Studies, as well as the experience in the field of the thesis, accumulated over 17 years of activity as manager.



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(\*) [\*Common European Framework of Reference for Languages\*](#)

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