



ACADEMIC TITLE: 2015-2016

TITLE OF DIPLOMA THESIS:

“Development and management of a project’s schedule and risk analysis with the softwares Primavera P6 and Primavera Risk Analysis”

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ABSTRACT

The effective management of project schedules and the examination of realistic scenarios during risk analysis are guarantees of the right scheduling and the timely and successful completion of a project. The large amount of activities of the modern technical projects and their implicit complexity require the use of specialized software that will enable functions, which will amplify and simplify the role of the project manager.

The current diploma thesis concerns with the organization of projects through the use of Primavera P6 and Primavera Risk Analysis software. Schedules are developed and updated throughout the life cycle of the project, taking into consideration the most important factors, which affect considerably the progress of the project. The project manager mainly examines the cost and time to assess the performance of the project, comparing the actual with the scheduling results. Resource leveling is an integral part of the whole process, while the use of the planned value method facilitates the drawing of conclusions for the optimal organization of the project.

Through the use of Primavera Risk Analysis the facts, which can modify significant aspects of a project, are analyzed. Initially the main risks are detected and registered and then their effects in the schedule data in case of occurrence are examined with the use of modeled scenarios. Additionally, depending on the probability and the impact of the risks, they are defined as accepted, accepted after measures and not accepted, determining the strategies of the reactions against the risks.

Data of a technical project, which are assessed as adequately realistic, were used for software testing. In the end conclusions are presented and suggestions are made for the optimal function of the examined software.

KEYWORDS

Scheduling, schedule management, risk management, Primavera P6, Primavera Risk Analysis