

TITLE OF MASTER THESIS

Management of Telecommunication Projects

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ABSTRACT

Construction projects undertaken by a telecommunication company must create overvalue and must satisfy the wider strategy of the company. Given the number of alternatives (implementation of alternative technologies, project construction in different geographical areas) the wise selection of technical projects is significant to the company. In this essay, it will be presented the multi-criteria analysis and decision making methods for the selection of the project to be constructed (focused on ELECTRE, PROMETHÉE methods). Also, it will be analyzed scheduling methods (WBS work breakdown structure, CPM critical path method, PERT program evaluation and review technique, uncertainty of the activity duration), cost management (cost estimation techniques, project's budget, cost supervision and control methods, assessment of the life cycle cost of a project, maintenance and upgrade issues), quality management (QA systems) and health and safety issues. Finally, through systematization of the experience and knowledge of design and construction of telecommunication network projects and through data analysis with PROMETHÉE method, it will be emerged that a correct project selection combined with optimal costing, time and quality project management will bring the expected results in the company.

KEYWORDS

Project management, telecommunication projects.