

Abstract:

The PhD thesis entitled “Development of modules for resource allocation and quality assurance in project monitoring” has as main target the improvement of the project management system. The scientific work is structured in five chapters, one chapter consisting in a monitoring theoretical review and synthesis, as far as project resource allocation and quality assurance are concerned, three chapters of scientific research and a Best practice guide for resource allocation and quality assurance in the IT project monitoring, the objectives of the scientific work being enhancement of project team performance and project monitoring system improvement.

Within the PhD thesis, hypothesis have been formulated and new practices for project resource allocation and quality assurance monitoring have been identified. Critical activities for resource allocation and quality assurance in project monitoring have been defined, with direct impact on project deliverables and research activities have been performed, which supported the confirmation of the elaborated hypothesis and identified monitoring key performance indicators. The obtained results stand as basis for processes development for resource allocation and quality assurance in project monitoring, including the critical activities within their process flow. A Best practice guide for resource allocation and quality assurance in the IT project monitoring has been developed, proposing a list of critical activities for resource reallocation and quality assurance procedures updates for project monitoring. The Best practice guide has been tested in real projects, within an IT/ Software development organization. The obtained testing results have been presented, as well as a comparison with results of similar projects not having implemented the Best practice guide.