ME4126D : OPTIMIZATION METHODS IN ENGINEERING

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OPTIMIZED ALLOCATION OF PROJECT HUMAN RESOURCE

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ABSTRACT

The distribution of project human resources is critical right now. One of the most crucial yet often underestimated parts of project management is the human factor. The quality of talent engaged, and, more crucially, the manner in which management deploys talent on the project, is closely related to the project's success. Therefore, employee productivity is hampered by some deployed solutions that ignore employee preferences for which tasks they focus on. Those that do take employee preferences into account are non-deterministic, making it more difficult to assess the business process effectively.

By combining competency model theory and staff expectations, we are trying to take these two concepts of, staff competency matching with work package requests and staff expectations matching with work packages in this study. Using some optimization methods, we should arrive at an optimal answer.