# Master Thesis

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## Neelima Gumpena: Transformation of Workflow Models using MDA approaches

## Description

Business processes generally play an important role and it specifically defines how the activities are going to be performed, and how these processes play the vital role must be understood clearly because it gives the basic knowledge of what is going to be done within an organization. This can be achieved by knowing the characteristics of the process represented by suitable models and each model defines their own set of protocols considering the examples as UML Activity Diagram or Event driven Process Chains or a Business Process Modeling Notation (BPMN).
A modeling language is of language which tends to express information or knowledge or systems in a meaningful structure by some sort of protocols. A modeling language can be graphical or textual. Graphical modeling languages have workflows and flowcharts that are necessary with some symbols representing concepts according to the language used. Textual modeling languages typically use standardized keywords accompanied by parameters to make computer interpretable expressions. The Data Mining and Integration (DMI) language is used to express hierarchical data-flow abstractions. The metamodel describes the relation how they are mapped from one set of elements to another set of elements. The advantage of using DMI is that users are not expected to write everything from the scratch. The mapping of DMI metamodel is made with BPMN metamodel as this is internationally accepted process modeling standard and easily understood by almost everyone in an organization, also this BPMN maps directly to the Business Process Execution Language (BPEL). The first part of the thesis includes researching the state and behaviour of both the models, secondly, mapping the constraints between the two metamodels and finally, the implementation is done using eclipse environment.

## Advisor

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