

# Connecting Theory and Practice in the Master Systems Engineering

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## Abstract

Systems Engineering is a discipline that has emerged in practice. People become systems engineer mostly by experience. However, we can help them to shorten the time needed by providing education in the Body of Knowledge of Systems Engineering. One of the main challenges is to connect the theory that we teach to the practical experience of the students.

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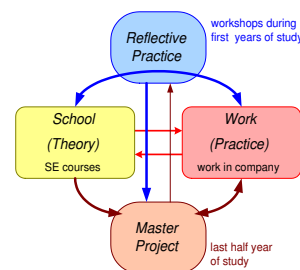
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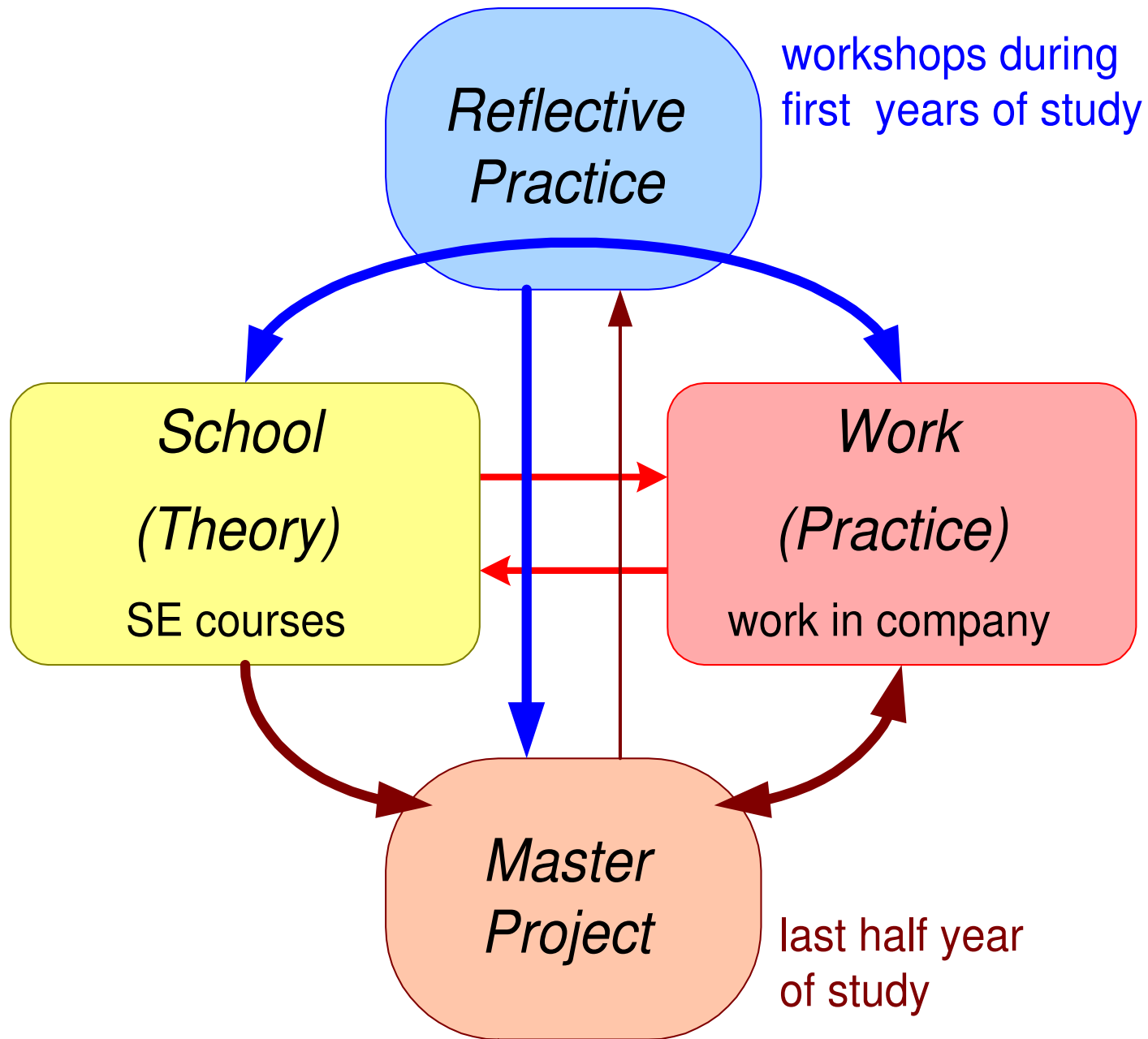


## *Colophon*

Merete Faanes from Buskerud University College created the educational flow *Reflective Practice*. Reflective Practice is a thread throughout the entire master Systems Engineering to stimulate students to relate *School and Work*, and *Theory and Practice*.

The course has been further developed by Merete Faanes, and Gerrit Muller

# Connecting Theory and Practice



# Workshops Reflective Practice

1<sup>st</sup> year

Reflection

My Role and Style

Critical Thinking

Domain knowledge

2<sup>nd</sup> year

How to apply SE in my daily work?

Cultural differences (international semester)

project (international semester)

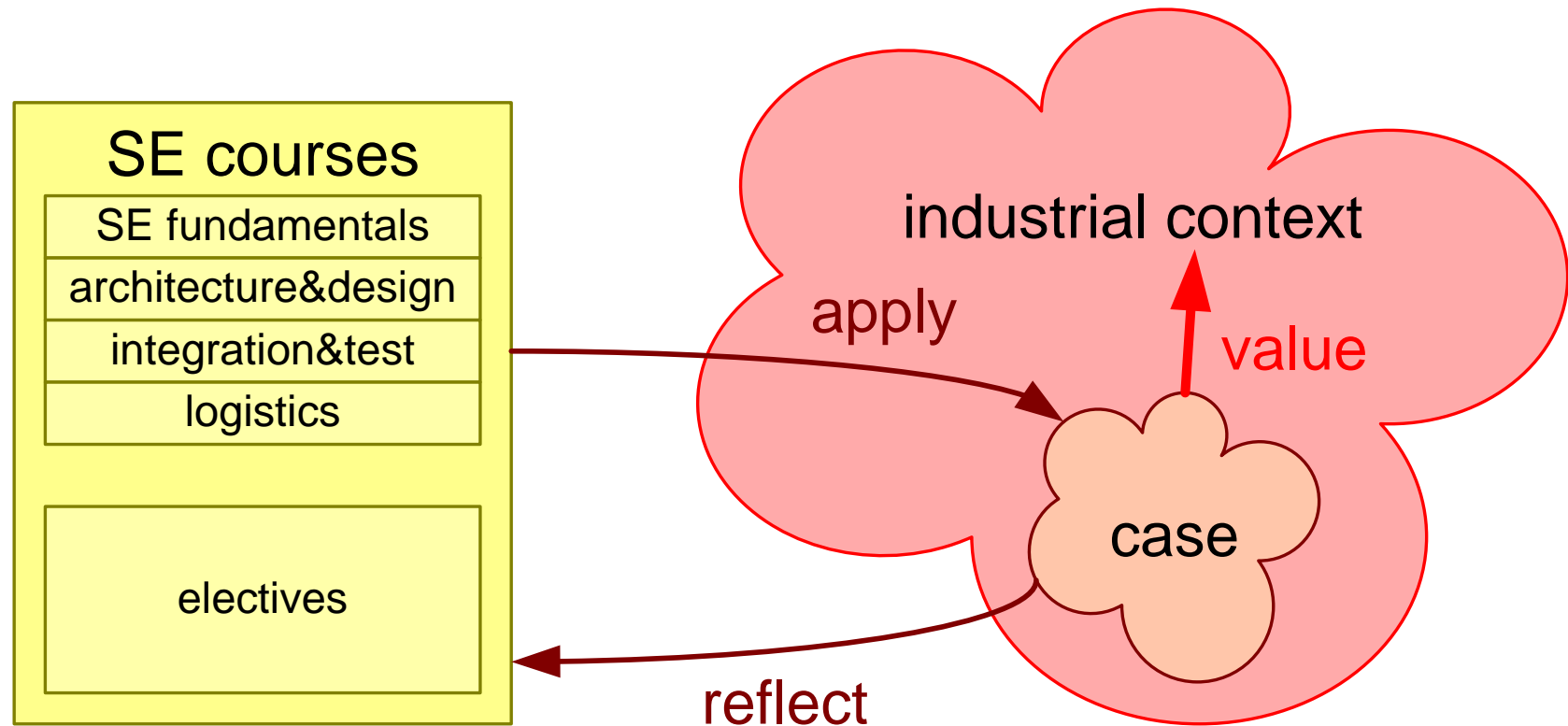
3<sup>rd</sup> year

Communication

From Student to Systems Engineer

Academic Writing

# Objectives of Master Project



Apply SE methods, techniques, and concepts in practice and reflect on its application, while providing value to the industrial sponsor