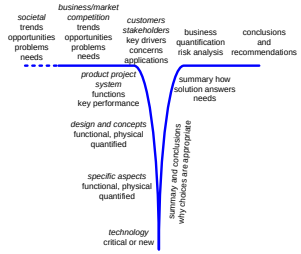
SEMA Homework Assignment

by *Gerrit Muller* University of South-Eastern Norway-NISE
e-mail: gaudisite@gmail.com
www.gaudisite.nl

Abstract

This document described the homework assignment for the SEMA course. The homework is made and delivered incrementally, so that the teacher can provide feedback during the assignment.



August 16, 2025
status: draft
version: 0.3

Group Assignment

Submit each step to the teacher, and process feedback in the next step

Step 1. weeks 1..3

- Consolidate work of course in 20 slide presentation as baseline.
- Search for answers to the main questions, biggest uncertainties and unknowns, validate main assumptions.
- Elaborate most relevant models.
- Discuss your work with other stakeholders to collect more facts and figures and for erly validation

Step 2. weeks 4..6

- Transform the presentation into a T-shape presentation
- Identify gaps in the “T”
- Make simple models to eliminate the gaps

Step 3 weeks 7..9

- Identify required changes in models made so far, due to increased insight;
- Change one of the models accordingly.
- Evolve the T-shape presentation (max 20 slides); the target audience of this presentation is your management.
- Present to company management
- Identify next models to be made, measurements to be done, or fact finding to take place.
- Update the presentation with feedback from management and a list of future work.

Individual Assignment

Write an individual reflection report after finishing the group assignment, answering the following questions:

- What are the main gaps in the current proposal and presentation? What 3 gaps will you address first, and why?
- In retrospect, formulate a problem statement that triggered the outcoming presentation and underlying modeling effort.
- What would you do differently if you would have to prepare this presentation again?
- How and what are you going to apply elements of this course in practice?

Be specific and use examples.

preferred size 2 A4s, max 4 A4s.

Submission Instructions

Submission instructions

use for all deliverables the following conventions:

filename: SEMA <your name or team> <subject>.<version>.<extension>

e.g. SEMA WOSteam presentation.2.doc

or SEMA John Student individual report.1.docx

email to: <gerrit . muller@usn . no>

subject: SEMA <subject>

and submit in WiseFlow before the deadline.

"standard" file types preferred, e.g. pdf, jpg, doc, ppt, vsd, docx, xls, xlsx, ppt, pptx