# Systems Engineering Course Research Methods; Material

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### **Abstract**

This module provides links to the course material, both the core material and elective material.

Distribution

This article or presentation is written as part of the Gaudí project. The Gaudí project philosophy is to improve by obtaining frequent feedback. Frequent feedback is pursued by an open creation process. This document is published as intermediate or nearly mature version to get feedback. Further distribution is allowed as long as the document remains complete and unchanged.

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logo TBD

# Colophon

This course is a joint development of

Kristin Falk

Satya Kokkula

Elisabet Syverud

and Gerrit Muller



### Research Framework

#### core

Systems Engineering Course Research Methods; Framework

http://www.gaudisite.nl/info/SEcourseResearchMethodsFramework.info.html

optional



## **Problem Exploration**

#### core

Systems Engineering Course Research Methods; Problem Exploration <a href="http://www.gaudisite.nl/info/SEcourseResearchMethodsProblemExploration.info.html">http://www.gaudisite.nl/info/SEcourseResearchMethodsProblemExploration.info.html</a>

optional



### Literature

#### core

Literature why, what, how, and Practicalities by K. Falk <a href="https://gaudisite.nl/SECRM\_Falk\_LiteratureWhyWhatHowAndPracticalities.pdf">https://gaudisite.nl/SECRM\_Falk\_LiteratureWhyWhatHowAndPracticalities.pdf</a>

optional



## Research Design

#### core

Research in Systems Architecting

https://gaudisite.nl/info/ArchitectingResearchMethod.info.html

Systems Engineering Research Methods

https://gaudisite.nl/info/SEresearchMethods.info.html

Systems Engineering Research; Examples of Flow and Methodology

https://gaudisite.nl/info/SEresearchExamples.info.html

### optional

Systems Engineering Research Validation

https://gaudisite.nl/info/SEresearchValidation.info.html

Validation of Systems Engineering Methods and Techniques in Industry

http://www.gaudisite.nl/CSER2012\_Muller\_validationSEinIndustry.pdf

Systems Engineering Research Methods

https://www.gaudisite.nl/CSER2013\_Muller\_SEresearchMethods.pdf

Application and Validation of Systems Engineering Methods and Techniques in Practice

https://gaudisite.nl/NOVA\_Muller\_AdvancesInSystemsEngineeringResearch.pdf

Master Project Papers https://www.gaudisite.nl/MasterProjectPapers.html



## **Statistics**

core

Statistics by E. Syverud

https://gaudisite.nl/SECRM\_Syverud\_Statistics.pdf

optional



### Research Ethics

core

Research Ethics USN by S. Kokkula

https://gaudisite.nl/SECRM\_Kokkula\_ResearchEthicsUSN.pdf

optional



## **Academic Writing**

#### core

Systems Engineering Course Research Methods; Language and Style of Academic Writing

https://gaudisite.nl/info/SEcourseResearchMethodsWritingLanguage.info.html
Systems Engineering Course Research Methods; Structure of Academic Papers
https://gaudisite.nl/info/SEcourseResearchMethodsWritingStructure.info.html

optional

