

### 3. Research Thesis (30%)

Qualification	fail	insufficient	sufficient	satisfactory	good	excellent
<b>Dutch grade: default and</b>	3.0 [0.0, 5.0]	5.0 [5.0, 5.5]	6.0 [5.6, 6.5]	7.0 [6.6, 7.5]	8.0 [7.6, 8.5]	9.0 [8.6,10.0]
Percentage of cohort with grade in this range or higher (student is in top ... of cohort)	100%	98%	90%	75%	25%	3%
<b>General description of quality item</b>	<b>Not present, or not understandable</b>	<b>Present but very difficult to understand by the reader</b>	<b>A basic description is present</b>	<b>The item is present, and easily understood.</b>	<b>The item is present, easily understood, and provides insight.</b>	<b>The item is present, easily understood, and provides original insight. In addition complex methodology is used.</b>
<b>The thesis has:</b>						
<b>a clear abstract</b>	Not present, or not understandable.	Present, but it is very difficult to understand the research question.	Present, with a basic description of the research question, the background, and obtained results.	Present, with a basic description of the research question, the background, and obtained results and potential impact.	Present, with a basic description of the research question, the background, and obtained results and potential impact. Provides insight into the problem.	Present, with a basic description of the research question, the background, and obtained results and potential impact. Provides insight into the problem, emphasizes key aspects.
<b>an introduction that sets the context and gives an overview of scientific literature (research question via rubrics)</b>	Not present, or not understandable.	Present, but it does not give an appropriate overview of the current literature, and/or does not introduce the research question	The introduction sketches the context of the research question and the used methodology in basic terms, while reviewing some of the scientific literature in this context. It states the research question explicitly.	The introduction sketches the context of the research question and the used methodology, while reviewing the most important scientific literature in this context. It states the research question explicitly.	The introduction sketches the context of the research question and the used methodology, while reviewing the most important scientific literature in this context. It states the research question explicitly. The introduction provides a helpful insight into the research context, and the available methodology.	The introduction sketches the context of the research question and the used methodology, while reviewing the most important scientific literature in this context. It states the research question explicitly. The introduction provides a helpful insight into the research context and the available methodology, and provides novel connections between the existing literature.
<b>a clear description of the methods</b>	Not present, or not understandable.	Present, but it is very difficult to understand the methodology.	Present, with a basic description of the methodology, and appropriate references.	Present, with a description of the methodology, and appropriate references. The work is reproducible by another MSc student based on the methods.	Present, with a description of the methodology, and appropriate references. The work is reproducible by another MSc student based on the methods. It provides insight in the choices made. A helpful overview of the methodology is available (e.g. in the form of a workflow).	Present, with a description of the methodology, and appropriate references. The work is reproducible by another MSc student based on the methods. It provides insight in the choices made and a good overview. Complex methodology is explained precisely, accurately and insightfully. A helpful overview of the methodology is available (e.g. in the form of a workflow).
<b>a clear description of the results (in the main text)</b>	Not present, or not understandable.	Present but very difficult to understand the results from the text.	Basic results are clearly described in the text.	Full results are clearly described in the text.	Full results are described, and the results are clearly described in the text. The student provides new insights based on the results.	Present, full results are shown, and the results are clearly described in the text. The student provides new insights based on the results. Complex results are precisely and insightfully explained.
<b>a clear representation of the results and data used (e.g in figures and tables)</b>	Not present, or not understandable.	Results and data are present, but difficult to understand from the figures and tables.	Results and data are present in an appropriate amount of figures and tables (<10). The captions describe the figures.	Results and data are present in an appropriate amount of figures and tables (<10). The captions describe the figures. The figures and tables give a full overview of the results.	Results and data are present in an appropriate amount of figures and tables (<10). The captions describe the figures. The figure and tables give a full overview of the results and provide insight.	Results and data are present in an appropriate amount of figures and tables (<10). The captions describe the figures. The shown figure give a full overview of the results and provide insight in an original or creative manner.
<b>a discussion that shows opinion forming</b>	Not present, or not understandable.	There is a discussion, but it does not fully connect to the research or misses the point.	There is a basic discussion present, that shows some opinion forming.	There is a basic discussion present, that shows opinion forming using current literature and results.	There is an insightful discussion present, that shows opinion forming using current literature and results.	There is an insightful discussion present, that shows opinion forming using current literature and results. The students makes links beyond the initial scope of the project.
<b>a scientific writing style and structure</b>	The structure is not present or very unclear and/or the writing style is inappropriate. There maybe many grammar and spelling mistakes.	The writing style is quite informal or the text does not follow an adequate structure for a scientific paper or there may be consistent spelling and grammar mistakes.	There is a basic level of structuring present. The style may be informal, or non specific in some parts. Mistakes in grammar and spelling occur rarely.	A scientific writing style is present, with a clear structuring of introduction, methods, results and discussion.	A scientific writing style is present with clear, specific and concise explanations, with a clear structuring of introduction, methods, results and discussion.	A scientific writing style is present with clear, precise and concise explanations, with a clear structuring of introduction, methods, results and discussion. The readability is excellent, and ready to be submitted to a journal.